











27700101.m YEVSKVITDGHSSVQVYVYEAAYTK QKVMVAVKLIISKKA SEDVYLNKFPREITVGMKVR EKYLINFYQALFET SRVYVILBELAQ GDVLEHTQRYCa CSEITLAKKMFQSMALGTAIVLHSEK GIVHRDLKLENLILDKR ENVKISDFGFAKMV PSSQPVrsspsy  
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17511097.w YDDEKTLQEGHFAVVKLARHVF TQEVAVKILQNTKE DEASTQIMKEVROKMLVQ HANIVRYEMDSSA TKIFLILLEGDY DLSDILKHEEg LBESBARKALFRQVBAIRYCHGC GVAHRDLKCNENALLDG STAHRDIKCNENALLDG EGVKLDFFGFAKRC  
38076166.m YDDEKTLQEGHFAVVKLARHVF TQEVAVKILQNTKE DLATGHEFQEVROKMLVQ HSNIVRYEMDSSA TKLVLILLEGDQ GDMFDVIMKHEEg LBESBARKALFRQVBAIRYCHGC GVAHRDLKCNENALLDG STAHRDIKCNENALLDG EGVKLDFFGFAKRC  
20301962.m YDDEKTLQEGHFAVVKLARHVF TQEVAVKILQNTKE DLATGHEFQEVROKMLVQ HSNIVRYEMDSSA TKLVLILLEGDQ GDMFDVIMKHEEg LBESBARKALFRQVBAIRYCHGC GVAHRDLKCNENALLDG STAHRDIKCNENALLDG EGVKLDFFGFAKRC  
19526942.m YDDEKTLQEGHFAVVKLARHVF TQEVAVKILQNTKE DLATGHEFQEVROKMLVQ HSNIVRYEMDSSA TKLVLILLEGDQ GDMFDVIMKHEEg LBESBARKALFRQVBAIRYCHGC GVAHRDLKCNENALLDG STAHRDIKCNENALLDG EGVKLDFFGFAKRC  
SNRK.h YDDEKTLQEGHFAVVKLARHVF TQEVAVKILQNTKE DLATGHEFQEVROKMLVQ HSNIVRYEMDSSA TKLVLILLEGDQ GDMFDVIMKHEEg LBESBARKALFRQVBAIRYCHGC GVAHRDLKCNENALLDG STAHRDIKCNENALLDG EGVKLDFFGFAKRC



AK102350.g VVHLCKTDSGYSYKVVLYRSMK DKLAVAVKLVNKMVMMkv -vvRSETAMTDVREVSIMKMD HENIVNLEHVDDPNADKFMVLEVEG K-MVCDNG ICBARSHRYRDLTIGVMVYHSH NTHGDTPKPNLLVST -GSVKIDGFSVSIIF  
30692568.p FVREKCTDSGYSYKVVLYRSTV DDKYAKAFKSHLSrlrvaPs -ETAMGVDREVMIMKLE HENIVNLEHVDDPFDFFVMVLEVEGCK -YAYDDSGPpg -alGEISARKYRDRVAVGLVYEHAA NVIHRDKIPKNLLVSTT -GRVKIDGFSVSVQVF  
23227987.p YVVRKCTDSGYSYKVVLYRSTL DQYYAIAKAFKSHLSRLR -VAPSETAMGVDREVMIMKLE HENIVNLEHVDDPFDFFVMVLEVEGCK -YAYDDSGG PPGALGSKARKYRDRVAVGLVYEHAA DVIHRDKIPKNLLVSTT -GRVKIDGFSVSVQVF  
399770737 YVTKBEICRSGYSYAVHLATDQ YONEYAVKGFESKARLRra -rtkEAKDALYLRREBETAMKCDN HENLVQLVEHVDDPEEDSLMVLMECKK -GVVMKGLDQAAe -pyGEQCRHMFYRDLTIGVYHQAQ -GTVIHRDKIPKNLLVSTT -DLTKLIDGFSVSEIF  
32411103.y YVTKDEICRSGYSYAVHLATDQ FCKEYAIKQFSKAQLRra -rtkEAKDALYLRREBETAMKCDN HENLVQLVEHVDDPEEDSLMVLMECKK -GVVMKGLDQAAe -pLBEQCRHMFYRDLTIGVYHQAQ -GVVHRDKIPKNLLVSTT -DLTKLIDGFSVSEIF  
17566086.w YMWGGQIGTDSGYSYKKECIDMY LTRRAVAKIMYDKLR KINTNGEAMRSEMSILRRMN HNRVILKVEIFNIPAKGVYVMEYXCJ -SQGLDMEFARR -LITGESHAIFHECOGLEYHSHK -RVVSHKDKIPKNLLVSTT -FVTKIDGFSVAVQAL  
7106425.m YVMDLLDEGYSYKKEVLDSE RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
27717549.m YVMDLLDEGYSYKKEVLDSE TLCRRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
LKB1.h YVMDLLDEGYSYKKEVLDSE TLCRRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646646.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646644.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646652.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646650.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646648.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646654.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
21358043.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
24646641.f YVMDVLEGYSYKKEAMNSE NLCLRAVKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
31207763.i YVMDVLEGYSYKKEVLDSE LNNRAVAKILKIKKLR RIRPNGEANVKKKILLRRLR RIRPNGEANVKKKILLRRLR HNRVIOVVDVLYNEEKOKMYLVMEYCV -GGQJEMDIYQpdk -fBVCAQHYGFROLTIGLEVYHSC -GLVHKDKIPKNLLVSTT -GLTKLIDGFSVAVQAL  
6322803.y YVDSVAGSGGQFYVKYKSSST LCKVAVKILKIKKIPWNAaqq -neaMRGNLMEIKERKREPAASRrn NQVHIVRLHECLDPSFSEST -IVYVNCSL -GELQWKRDDDDdip -isncsvSTAKRLEDLTKGLEYHSH -GCIHRDKIPKNLLVSTT -KVKLIDGFSVCIPT -Lpfeda  
6321259.y FEELATLNGQYKWKLARLDG TCAIVAKILNRFKKRqs -yslQKVENPRLKREIEVLMKRC HENNVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
6320976.y YVIEKELGQYKWKLARLDG SKQVAVKILDRFKEKqKk -lksksIKSENDRKREIATMKKCH HENNVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
39978237.p YVEMBEIQRQYKWKLARNTQ TQENVAKILIPRFSSKrrl -gkvtAEDPGRNKREVAITKKRr HENNVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
32404336.y YVIEBELQRQYKWKLARNTQ TQENVAKILIPRFSSKrrl -gkvtAEDPGRNKREVAITKKRr HENNVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
19075860.y YVIEKELQRQYKWKLARNTQ TQENVAKILIPRFSSKrrl -gkvtAEDPGRNKREVAITKKRr HENNVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
31237988.i BEQRERDDCTMASVYTRRRL RLINLVDCVFAHEFCD RLVNIVVLEVEILLDEPESIKVYLVLECYGR -GVKWCPCPKMeida -gpsl1FTQSKRVKLVVSGLEYHSH -GCIHRDKIPKNLLVSTT -GIVKIDGFSVAMSTAT -GSTN  
34013526.m FHLSPRLNPSVPSIVQCLARKDG GDDDFYQKILLLEEREGQTESQERQGMKMLHTEYSLSLHHT QDGVVHHHGFDRTKTKRCLVLDCLCA -HDFSCKTADLLNLQh -y -VIKEKR -LSBRQALEFVYVQVVEQDHAR -NIHRDLKKNVIVLDRR -TGRIVNDFGSKHL  
SgK495.h LGLRGNPSVPSIVQCLARKDG DDDFYQKILLLEEREGQESQERQGMKMLHTEYSLSLHHT QDGVVHHHGFDRTKTKRCLVLDCLCA -HDFSCKTADLLNLQh -y -VIKEKR -LSBRQALEFVYVQVVEQDHAR -NIHRDLKKNVIVLDRR -TGRIVNDFGSKHL  
31235112.i YVLEFEPGNVNYCYDID SHEELVCKLANNP -CSNMLT -AHFRDGG -E -NHTYIRHAKR -LCEBARAIFHOICQTVQVCHRN -GCIHRDLKKNVIVLDRR -TGRIVNDFGSKHL  
17864238.f LIAPYQPERDSTGGYGYV TTEYTCYKYPVASEAqa -VLAAYAR -LPT -HOHVAPTEVILLGS -RLLYTFPTKTH -GDHLSIVRSRRG -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
28274688.m PVYLLEREGQSCSYRALHCP TTEYTCYKYPVASEAqa -VLAAYAR -LPT -HOHVAPTEVILLGS -RLLYTFPTKTH -GDHLSIVRSRRG -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21362365.m PVYLLEREGQSCSYRALHCP TTEYTCYKYPVASEAqa -VLAAYAR -LPT -HOHVAPTEVILLGS -RLLYTFPTKTH -GDHLSIVRSRRG -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21426781.m VVLLEREGQNCYRALHCP TTEYTCYKYPVASEAqa -VLAAYAR -LPT -HOHVAPTEVILLGS -RLLYTFPTKTH -GDHLSIVRSRRG -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
Trb3.h PVYLLEREBEGRAYALHCP TTEYTCYKYPVASEAqa -VLAAYAR -LPT -HOHVAPTEVILLGS -RLLYTFPTKTH -GDHLSIVRSRRG -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
34863190.m pHFL -LHOR -RIMVSDSDskS SOEELVCKVFDIS -CYQESLAPCFCLSA -A -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
30315656.m YVLEFEBGD -HVFRVHLH GKYL -LPELLEGGHVFRAVHLH SOEELVCKVFDIS -CYQESLAPCFCLSA -A -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
31542100.m GKYL -LPELLEGGHVFRAVHLH SOEELVCKVFDIS -CYQESLAPCFCLSA -A -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
Trb2.h YVLEFEBGD -HVFRVHLH GKYL -LPELLEGGHVFRAVHLH SOEELVCKVFDIS -CYQESLAPCFCLSA -A -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
348666527.m YVLEPLAERE -HVSRALCIH -TQREIRKQVPEIKHY -QDKIRPYTO -Y -Y -ODKIRoyiqLps -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
Trb1.h YVLEPLAERE -HVSRALCIH -TQREIRKQVPEIKHY -QDKIRPYTO -Y -Y -ODKIRoyiqLps -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
24649331.f IETIEPEHNTRTLVYRQTRA -NRTKCVGMVNRQT -QSNDRGDIYMAEVLRODgs -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
17538163.w YSHLCKTGGGFSYVYAAQR NQEKVAIKRDKV -PKNRWLEITQMKBDK -SKYVYVEYDFDA -GYTYIVMELECG -CSQAYVREHa -LDDTAHVHVRQITSAVAFMHVR -NVHRDLKKNVIVLDRR -KMKVDFGFLAATL  
21358073.f YVHEQHLCKGGFAIYKARCILH THQDAVAKIDKLLI -QGTGLNLRQVEVETHSRUK -HPSVLBEVNYFDDN -NYVYVLEMCIN -GEMNRYLKNRMK -p -fBSBRARFHMQLITGMVYHSH -NIMHRDLKKNVIVLDRR -MKVIAQDFGLAQL  
34856879.m FKVGNLLCKGSAAGYRAESIHTQLBVAIKMIDKAM -YKAGVQRVONEVRIHCOLK -HPSVLBEVNYFDDN -NYVYVLEMCIN -GEMNRYLKNRMK -p -fBSBRARFHMQLITGMVYHSH -NIMHRDLKKNVIVLDRR -MKVIAQDFGLAQL  
27501466.m FKVGNLLCKGSAAGYRAESIHTQLBVAIKMIDKAM -YKAGVQRVONEVRIHCOLK -HPSVLBEVNYFDDN -NYVYVLEMCIN -GEMNRYLKNRMK -p -fBSBRARFHMQLITGMVYHSH -NIMHRDLKKNVIVLDRR -MKVIAQDFGLAQL  
27501454.m FKVGNLLCKGSAAGYRAESIHTQLBVAIKMIDKAM -YKAGVQRVONEVRIHCOLK -HPSVLBEVNYFDDN -NYVYVLEMCIN -GEMNRYLKNRMK -p -fBSBRARFHMQLITGMVYHSH -NIMHRDLKKNVIVLDRR -MKVIAQDFGLAQL  
PLK4.h FKVGNLLCKGSAAGYRAESIHTQLBVAIKMIDKAM -YKAGVQRVONEVRIHCOLK -HPSVLBEVNYFDDN -NYVYVLEMCIN -GEMNRYLKNRMK -p -fBSBRARFHMQLITGMVYHSH -NIMHRDLKKNVIVLDRR -MKVIAQDFGLAQL  
19075073.y YMDKILLRQSAVACYLAETIE SOEYAMGVVVKDI -KSRKVEKESBETATHSKOD -NHNVVMRFRSS -EYVFWLELCEK -GADALLKRNQ -LKRIVARFVKQVEGLEVYHNSV -SVVHRDLKKNVIVLDRR -KFNVIKDFGLSAVI  
25742783.m YVGRGLCKGSAKCFEISDSD KQVFPFKVIRKSL -LKHQKREKMSBETSIRSE -HOHVAPTEVILLGS -DFVFWLELCEK -RSLELHKRKA -LBEESARYVPROLVGGQVPHRN -GVVHRDLKKNVIVLDRR -DLBVKIDGFLAQL  
17541716.w YEKGAFLCKGGFAHCFEFRKLD NKRVLAVVVKVPLV -LKSTAREKQTRVETHSRQDS -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
22779889.m YCRGKVLCKGGFAKCYEMTDLT NNKVYAKLIPHSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
13929172.m YCRGKVLCKGGFAKCYEMTDLT NNKVYAKLIPHSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
PLK2.h YCRGKVLCKGGFAKCYEMTDLT NNKVYAKLIPHSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
34862304.m YRRKLIKCAFBRKYLTDMS TSAVFLKVVPRGGA -GRLLRQKVEEIALHSH -GRLLRQKVEEIALHSH -DHVMVLECYGRSAHGRGLIHS -spenkgvpp -rr -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
24870279.m YIKGRLLCKGGARCYEATDE GCIAYAVKVIQSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
3956070.m YTKGRLLCKGGARCYEATDE GCIAYAVKVIQSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
PLK3.h YIKGRLLCKGGARCYEATDE GCIAYAVKVIQSRV -AKPHQREKDKBEELRHLH -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
39965586.y YOVKXLLCKGGAVCYGQLPG TRKRFALKIVKMS -PSKMQ -KVAKrfpGdL -IVNIVQFHRAFSFE -SSTYVLELCECN -GSMMDVKKRKG -VDEBVRVYAVQITAGAKYMHK -GCIHRDLKKNVIVLDRR -Y -L  
32422413.y YOVKXLLCKGGAVCYGQLPG SBKRYALKVQKMAS -KMBQKFOELHSHKRN -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
6323643.y YHRGRLCKGGARCFQIKDD SOEIAFAKVIKMS -KSEKTRKKBLEIITKMS -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
19114559.y YTRYDCLCKGGARCFRVKDN YONIAFAKVIKMS -QNDKTRKKBLEIITKMS -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
48830012.q YKRMETLCA -TIVYVYRDRR TQETAVK -W -LRVVAANPS -N -RDMVYVPEVGA -RSP -RDLTAGHArr -rpsGSTRALVQLRAGVTHAA -GVVHRDLKKNVIVLDRR -GALKIDGFSMATA  
32476406.b YVTRGIVCGGFBVYFVAVSOA QKEVALKFORNLEVelr -gvshC -LNK -DQQA -VMEVIVP -NRVLEDDAAKsaasdnvlpss -mfsGQARHMEVGAAGAAVHEGA -GVVHRDLKKNVIVLDRR -GIVKIDGFSKFI  
32475108.b YVTRGIVCGGFBVYFVAVSOA QKEVALKFORNLEVelr -gvshC -LNK -DQQA -VMEVIVP -NRVLEDDAAKsaasdnvlpss -mfsGQARHMEVGAAGAAVHEGA -GVVHRDLKKNVIVLDRR -GIVKIDGFSKFI  
32471645.b YVTRGIVCGGFBVYFVAVSOA QKEVALKFORNLEVelr -gvshC -LNK -DQQA -VMEVIVP -NRVLEDDAAKsaasdnvlpss -mfsGQARHMEVGAAGAAVHEGA -GVVHRDLKKNVIVLDRR -GIVKIDGFSKFI  
32476111.b FDLBEVQRGGMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
32476735.b FDLBEVQRGGMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21221541.b -m -GQWYAYDR LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831162.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29827516.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831551.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21223157.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831553.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21223158.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831550.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21223156.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831548.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21223154.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29831967.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29348178.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29830914.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
21222231.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
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15615067.b YVRLRLLCA -GMVCFVFRAROS LDRVAVKILRGRILAS -DADLQRFMAEAAATASD -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
34898088.p LSEKVIHSGASSTYKCEK SCKALAVGRYQY -NHSLEFEETELTSSR -HNSINNOIEHILGE -TKAVYFFERSY -GDMHSFVRTCKK -IPEBEEAALFROMASAVAHQCHK -GLVDRDLKCRVFAADRE -RKLVLBNLEDAQVM  
29827180.b mlFT -NLGCV -RNVVGRHQ -RRARp -vga -GDP -RASK -SRVHLOHGr



ULK3.h FHLRRLDQSGFVAVYKAYAKK DFLVVAIKVQVAKKSL NKAASVENLTFEELIKGFR HPHIVQKDFQWDS DNYVLMFECAG GDLRFHTTRRI LPEKVARVFMQOASALGFLHER NTHSDLDKPNILLSSLE KPHLKLADFGCAQHM  
39978255.y FEKLLKLCQDVCVWLVREKK RDKLEKMLDKDDEM IRRNKIKRTVTEBILQVMN HPHIVSDFHFSFQSO KYLVLMFECYCS GDFRALQSRPG KCISEKARFYEAVTSALEVYHMN NTHSDLDKPNILLSSLE GHLMSDFLDSKIS ivgrngTTmLD  
37700244.d FDKLKLKQCFHCVLVLVRKA TQMYAMKLRKVEI TAKDEVAHRTISBVLQNTN HPHITLTKYAFSTR DRLCFVMEYAG GDFRFLHRSERV FTBDRARFYSALVSALEVYHSH DUVYRDLKRNLLMDC DGHKTIADFGCKEG  
38088242.m YTFGRILQCGSFGWVEFAIDKE TQAKVAIKRVNKEK AGSSAMKLRDEVEVILKIVN HPHITLHEBOVBSPP OKMYVLMELCED GELKAVMDOORCH FSNBDRHTILOSASATVYHSHK DIVHRDLKRNIMVKSefinemlnIKRVDFGLSVOKHGS  
38087657.m YTFGRILQCGSFGWVEFAIDKE TQAKVAIKRVNKEK AGSSAMKLRDEVEVILKIVN HPHITLHEBOVBSPP OKMYVLMELCED GELKAVMDOORCH FSNBDRHTILOSASATVYHSHK DIVHRDLKRNIMVKSefinemlnIKRVDFGLSVOKHGS  
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STK33.h YTFGRILQCGSFGWVEFAIDKE TQAKVAIKRVNKEK AGSSAVKLRDEVENILKIVK HPHITLHEBOVBSPP OKMYVLMELCED GELKAVMDOORCH FSNBDRHTILOSASATVYHSHN DIVHRDLKRNIMVKSefinemlnIKRVDFGLAVOKHGS  
23509449.z YKRFKILLCSFGWVEHCEINMK KLEVYAVKILIKKIKKIKMK synFEEKVKNELKYSLIMS HBNITLKEKDFBQK NKFFVYVLEKCGG GELFVYVWKNKC LMSBESITVROCCALVYHSH NITHRDLKRNELFKMKn tknIKLIDFGCAKRVN  
23508430.z ILSFKILLQAFBVEHLVDNI CKLYKVVKILIKKIKMK HIKNKEENVLIIVD HBNITLKEKDFBQK NKFFVYVLEKCGG GELFVYVWKNCS FMEYTKIKDMFOILLCAHAYHSH NTHKDLKRNELFKMKn ddrIKLIDFGCAELIN  
23509698.z YKHLINKIQDNGSKVCCRGE NKKKAMKRVKPYIMLhlmccplkktshYNGCFKRELEIMKINnk HBYIVKLDVHEKIKVIMLILYECYG GNFLEWYKINs cTHSEARVILIKLTKTIVYNSL KIMHRDIRPENILLRTKDN I KSVLSDFGGLAKIT  
6323948.y VLNHNSIQDNGSKVCCMNTH RDKLYAMKLRKQOT VKNKQITLHREVEMLDSHsekiH HPHITLQDFVYFSA NDMVLLTOLCAQ GDLYKRVNOC ldeTDEVTYSYCAQGVSVLEPHSQ GIVHRDLKRNELFKRVN lADHVDADFGAAEY  
17560450.w YHSAIKLQCFNSVHLTRRKE DQTKCALKRYQSTLofSvekrAMRGKCFVDMVEMLSLIQ HPHITLSDAFSTE NDMVLEFHAQY GDLYERIRKNRC NVVHRDKRNELLLYDK fsvKLDADFGACHIL  
23612525.z NVMLKIKKHGLY YKIK ETELOREBELEKDK HPHILNLIQKCADDE NDI LSEYSSS GDLYSYVGFNI LQEKQVILICQILKALVYHSHK GILHGDIPQNLLEfndqvnvmlVKIADFGGLSVKCGF  
39976959.y NFVRSRLQCSGAVATVLEAEDRK THROVMCAHRLDRLPg dyI LRAEOBAYILSDP HBNIMAFKQAYTRD cafsLFPADLITG GDLYSYLHARVY GFLRDLKRNIVROIVSAYVYHSHK GIVHRDLKRNELCAVFFS s  
32411721.y LIVEDRTLRCAHVAHLLADTVL TQGVYAGKVNLDLRRP RSHQILRREKQOAMLLSYD HBNITLKAAFSEB HSUVITTELAGC GDLFSLISRECA LPEHSHRITKRNQILNADVYHSHK GVHRDLKRNELCAIAVYHSH YRLVLSDFGSAVT  
6324927.y ENINRIVNCFHVVLLITHNSKdvcyHPEYAVKILIKKIN K FDKBARILRAD HBNITLYVHFCDR NHHVITPQDLIP GDLFSLYAKAGD LIMSSEHSLIIVFOILLALVYHSH DIVHRDLKRNILLCTPEFC TRIVLADFGIADL  
19115820.y NITQRLLQCGSFRHYMAMDN TQSQPAQKIIDKIKS T KRFFEDHEHEILKQD HBNITVWMEYNSE TQEFLEBAYVCG GDLFSLYVTKLQT VPEVTTLDFMOILLALVYHSH NITHRDLKRNILLASSSDTI FRHLDADFGVRCM  
17509653.w VILSDKTLQCGSFGVYYSAIQRH SOKRVAVKISKERFS KKGSGAESRBAVEAILQOTC HPGIVQCEBEMFQK DKTIFVMEKKN GDMMLLSQBL GRINSRATKBLVAVLCAKRYHSHK GIVHCDLKPENILLSDMGSN FPQVKLODFGARFI  
17564674.w IFADDEVLSQCGSFGVYGGIRRR NQDRAVAVKIDKLRFP P-NKEDLELRAVEVAILQERVD HPGVIVNBOEMFHP DRIFVVMKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASND FPQVKLODFGARFI  
31204273.i IFADDEVLSQCGSFGVYGGVIRK THRAVAIKVIDKLRFP TKQEAOLKNEVAILQNLDS HAGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSHQK GRLEBRVTKBLTQILVALRHHFK NIVHCDLKPENILLASND FPQVKLODFGARFI  
34861990.m IFADDEVLSQCGSFGVYGGKIRK TORVAIKVIDKLRFP P-TKQESORNEVAILQNHDP HPGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASAP FPQVKLODFGARFI  
27753989.m IFADDEVLSQCGSFGVYGGKIRK TORVAIKVIDKLRFP P-TKQESORNEVAILQNHDP HPGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASAP FPQVKLODFGARFI  
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34855428.m IFADDEVLSQCGSFGVYGGKIRK TORVAIKVIDKLRFP P-TKQESORNEVAILQNHDP HPGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASAP FPQVKLODFGARFI  
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6679351.m IFADDEVLSQCGSFGVYGGKIRK TORVAIKVIDKLRFP P-TKQESORNEVAILQNHDP HPGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASAP FPQVKLODFGARFI  
34865180.m IFADDEVLSQCGSFGVYGGKIRK TORVAIKVIDKLRFP P-TKQESORNEVAILQNHDP HPGVIVNBOEMFHP ERIVFVMEKLN GDMMLLSQBL GRLEBRITKBLTQILVALRHHFK NIVHCDLKPENILLASAP FPQVKLODFGARFI  
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33622206.y LKNDLNGCAGSYNVLCKKGG EOKMYVQKIVKSSFFnal efd VHLMKH NNFNFKLHHEVFNNE EDLILMDVXKD GDLFEIYKKNDD KLEBAPTKLHLLVVALDPERK NITHRDKRNELLYDRKK KRLVVOYGLCKRIT  
15617477.y VHSSCRLLDKYKQVSVLRITP DDKLELKLKIKHENE d aLDFVHHLRrd HBNFVRYLYAFATP KINVLAMDVXD GDLFEIYKKNDD fSBRKTHAVWSOLBALNSELGH RLVHNDKRNELVFKSN ROVKLODYGLCKPV  
23577877.v VKTRYKLNRRFKSILSHP TSKLYLQKLSAHNFN adIRVHOLEMD HBNFKLHFNHNSI NNQVIMDVIDCP DLEFELQIK e IYQLVSNLHROLCBALNDEKHK NETHNDKRNELVYFAL DRVVOYGLCKHE  
9630819.v VKTRYKLNRRFKSILSHP TSKLYLQKLSAHNFN PDEIRVHOLEMD HBNFKLHFNHNSI NNQVIMDVIDCP DLEFELQIK e IYQLVSNLHROLCBALNDEKHK NETHNDKRNELVYFAL DRVVOYGLCKHE  
15320792.v TVVAKPLNRRFKDVLVRRP TSRYLRKRTIAHN FSADENVVDDMD HBNFNMVFSYSSL NAVVIMDVIDCP DLEFELQIK e ISSVIVANLYROLCBALNDEHAT GIVHRDIRPENILYFKAR DRVVOYGLCKRE  
37651384.y VVAAPQVLRNRRFKDVLHHP TSRYLRKRTIAHN HBNFNVHDDMD HBNFNVHDDMD NAVVIMDVIDCP DLEFELQIK e ILSALVANLYROLCBALNDEHAT GVHRDKRNELVYFAR DRVVOYGLCKRE  
30387377.v VVAAPQVLRNRRFKDVLHHP TSRYLRKRTIAHN FSADENVVDDMD HBNFNMVFSYSSL NAVVIMDVIDCP DLEFELQIK e ILSALVANLYROLCBALNDEHAT GVHRDKRNELVYFAR DRVVOYGLCKRE  
29567090.y IKMNLNLSKFKKILVQKRP NMLKLEKQKIRTOYDN sEFPVHRHMK NKYFKLHFNHNSI TAWILMDVXD GDLFEIYKKNDD LITDSEVILHROVCPALADPHK LITHNDKRNELVYRG KOIYVOYGLCKRIK  
39945616.y YNRFVQKQCAFATVHKVTSKY DRRYVAAKBEIRRFEM KGVVLQKQVNEKIMDRS VAHYILP GDLGKYVORYP LITRATIAKOLSSALVYHSH NITHRDKRNELVYHSDN TFFVKLADFGLSKMV  
32423025.y YNRFVQKQCAFATVHKVTSKY NRRYVAAKBEIRRFEM KGVVLQKQVNEKIMDRS VAHYILP GDLGKYVORYP FSNBDRHTILOSALVYHSH NITHRDKRNELVYHSDN LVVVKLADFGLSKMI D  
19075441.y YHDIRTLQCGSAVVKLAVEN SOKWYAKILNKRKILL tsSEKRATEMFOREIDILKSH HPGVIVQCEBEMFQD DELFVMEVVEG GDLMDLITANCS TDSQCKRLEKQLESLHBEHQ GIVHRDIRPENILLTND FELKISDFGLAKVI  
6325104.y SHIDREVOQCAFATVKAIBRT TCKTFAVKILSKRVV T-GNMDVIRELEVLQKDN HPRIVRKYVYEDT ESYVMVEVVEG GDLMDLITANCS VGDAGREKQLESLHBEHQ GIVHRDIRPENILLTND FELKISDFGLAKVI  
17569713.w HVTSISLQCGSFGKVLGYNKS DRSVAIKQLNTOFSST csRAIAKTRDTRNEVEVMKLS HBNIVVAVDITIVA KYSVMVIEVVG GBEFSKVVDSKY NQMLGBSLKYFAFOLIDAVYHSH GICHRDIRPENILCSNKA RCILKLADFGMAKNS  
32566075.w HVTSISLQCGSFGKVLGYNKS DRSVAIKQLNTOFSST csRAIAKTRDTRNEVEVMKLS HBNIVVAVDITIVA KYSVMVIEVVG GBEFSKVVDSKY NRMGLGSLKYFAFOLIDAVYHSH GICHRDIRPENILCSDKAE RCILKLADFGMAKNS  
17566118.w HVTSISLQCGSFGKVLGYNKS DRSVAIKQLNTOFSST csRAIAKTRDTRNEVEVMKLS HBNIVVAVDITIVA KYSVMVIEVVG GBEFSKVVDSKY NRMGLGSLKYFAFOLIDAVYHSH GICHRDIRPENILCSDKAE RCILKLADFGMAKNS  
24585370.f YVNRKLLSAGYVRLVYDTR TQQQFAMKIVKNNMLSga rpsNFSDDRVNBAKIMKNs HPGCVVMDIVKCP DSVVMVLEBMRK GDLNRIISNKL LSHDLSKLYFQMCNAVYHSHK GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
17137304.f YVNRKLLSAGYVRLVYDTR TQQQFAMKIVKNNMLSga rpsNFSDDRVNBAKIMKNs HPGCVVMDIVKCP DSVVMVLEBMRK GDLNRIISNKL LSHDLSKLYFQMCNAVYHSHK GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
17137306.f YVNRKLLSAGYVRLVYDTR TQQQFAMKIVKNNMLSga rpsNFSDDRVNBAKIMKNs HPGCVVMDIVKCP DSVVMVLEBMRK GDLNRIISNKL LSHDLSKLYFQMCNAVYHSHK GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
31222091.i YHISRTLOSASFVYMLHDVT TQOYPAKILNKKLS T-KLRGSSPTNEANIMKDN HPGCIVRLEDFINDP GSHVMVLEBMRK GDLNRIISNKL LPEBDAKRYFQMCNAVYHSHK GIVHRDLKRNVLKDNDE YTLKVSDFGLSKFL  
16758490.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL SSREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLSSQEE DCILKIDFGSKILL  
YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLSSQEE DCILKIDFGSKILL  
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24648808.f YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLSSQEE DCILKIDFGSKILL  
17568923.z LSHRDIQCFEFSVRRCKIP SNQOFAVKIVDVAKFT aSPGLSTEDKREASICHMK HPHIVBLEYSSD GMLYVVEBMRK ADLCFEIVKRAD AGFVYSVAVASHYRQILBALRYCHDN DIIHRDVPACMLLATADN saFVKLGFGSAVOLGPT  
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CaMK2d.h YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
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21204371.i YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
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32655737.w YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
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32655732.w YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
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21703722.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
CaMKK2.h YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
28916677.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
CaMK2a.h YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
31982483.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
CaMK2b.h YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
6753276.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
23308741.d YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
CASK.h YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
31241957.i YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
31241959.i YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
22203757.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
11559947.d YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
1120682.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV  
19424316.m YHISRTLOSACACVMAFBRK TCKVAIKLISRRFAL ssREADTAPSVETEILKQDN HPCIIKIKVDFDA EDVYVLEBMRK GELFDRVGNKR LKBACTKLYEVMQLAVYHSHEN GIVHRDLKRNVLLETNDE ETLKVSDFGLSKFV



	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390				
38081699.m	KPGQK	NLCGTYF	FAAPV	EVLS	RFYD	GKIDV	TLGVVLY	VMVTC	KIPD	DAASI	EKRK	QIVAG			KYSV	FCRIS	VKLH	HTITL	MLTD	NPKL	RST	VAEVM	HPV
28545503.m	KPAQK	NLCGNYF	FAAPV	EVLS	RFYDM	RKIDV	SLGVVLY	VMVTC	KILD	DAASI	EKRK	QIVAG			KCSV	FCRIS	VELD	LDLIR	MLTD	NPKL	RST	VAEVM	HPV
38077722.m	KPGQK	NLCGTYF	FAAPV	EVLS	TFYD	GKIDV	TLGVVLY	VMVTC	KIPD	DAASI	KRV	KRIL	LAG										
38081179.m	KPGQK	NLCGTYF	FAAPV	EVLS	TFYD	GKIDV	TLGVVLY	VMVTC	KIPD	DAASI	KRV	KRIL	LAG										
38081192.q	KPGQK	NLCGTYF	FAAPV	EVLS	TFYD	GKIDV	TLGVVLY	VMVTC	KIPD	DAASI	KRV	KRIL	LAG										
38081189.m	KPGQK	NLCGTYF	FAAPV	EVLS	RFY				E	WAGD													
38093504.m	AGDL	DEHCC	AYAF	APV	EFLW	ERFD	GKIDV	ALGVVLY	VMVTC	KVPD	SFT	IPBL	QML	AG									
20956294.m	PGQK	RHYC	TYAF	APV	EFLW	KSVD	GKIDV	ALGVVLY	VMVTC	KVPD	SFT	IPBL	QML	AG									
34860510.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	TLGVVLY	VMVTC	RIPD	DDSN	IPQL	R	SOV	VLSG								
34856843.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	ALGVVLY	VMVTC	KLPE	EAAR	LPIL	RR	Q	OV	VLSG							
34853832.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	ALGVVLY	VMVTC	KLPE	EAAR	LPIL	RR	Q	OV	VLSG							
34853830.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	ALGVVLY	VMVTC	KVPE	EAAS	IPIL	RR	Q	OV	VLSG							
34852759.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	ALGVVLY	VMVTC	FAPD	SGTT	LSPE	S	KN	V	L	QQ						
29244156.m	PGQK	RHYC	TYAF	APV	EFLW	KLYE	GKIDV	ALGVVLY	VMVTC	IPFP	VGST	LSPE	S	KN	V	L	QQ						
34868300.m	TPGM	KSEHCC	ALRF	APV	EFLW	RFYD	GKIDV	NI	GVVLY	VMVTC	DLP	EV	G	T	LL								
38080253.m	KPGMK	SRCC	AVLY	FAAPV	EFLG	RFYD	GKIDV	TLGVVLY	VMVTC	KLPE	R	G	K	S									
38079866.m	KPGMK	SRCC	AVLY	FAAPV	EFLG	RFYD	GKIDV	TLGVVLY	VMVTC	KLPE	R	G	K	S									
17568289.w	GQDL	NNTY	CS	SPY	AAPE	FLG	NSVD	CKADI	SM	VLLY	VL	W	CC	FP	PE	S	D	S					
21356423.f	EPKAP	ET	CS	SPY	AAPE	FLG	KKYS	CE	EDS	SL	GVVLY	VL	W	CC	SL	PE	D	S					
21356537.f	pNAQ	ET	CS	SPY	AAPE	FLG	rKNA	G	EVDAI	SL	GVVLY	VL	W	CC	SL	PE	D	S					
25145948.w	lgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
17562784.w	lgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
31240093.i	TPGSK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
31240095.i	TPGSK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
24655800.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
24655796.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
24655791.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
24655783.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
24655778.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
22726183.f	pgsKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
11067437.m	TFGNK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
66796433.m	fgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
MARK2.h	fgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
34855312.m	lgSKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
26986591.p	lgSKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
MARK4.h	lgSKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
16758824.m	TVGNK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
21704014.m	vgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
MARK1.h	vgNKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
12313871.m	TVGSK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
18543359.m	TVGSK	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
12313875.m	vgSKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
MARK3.h	vgSKL	D	T	C	S	P	Y	A	A	P	E	L	F	S	G								
QSK.h	FGQL	ET	CS	SPY	AAPE	FLG	KFYD	GKIDV	SL	GVVLY	VL	W	CC	AL	PE	D	S	G					
24655167.f	EGAT	ET	CS	SPY	AAPE	FLG	LEFD	GKIDV	SL	GVVLY	VL	W	CC	AL	PE	D	S	G					
31217533.i	VEGQ	ET	CS	SPY	AAPE	FLG	RFYD	GKIDV	SL	GVVLY	VL	W	CC	AL	PE	D	S	G					
20128911.f	PGEL	ET	CS	SPY	AAPE	FLG	KQYD	GE	EDT	SL	GVVLY	VL	W	CC	AL	PE	D	S	G				
11067425.m	KPEB	ET	CS	SPY	AAPE	FLG	KEYE	G	OLDI	SL	GVVLY	VL	W	CC	AL	PE	D	S	G				
6754746.m	KPEB	ET	CS	SPY	AAPE	FLG	KEYE	G	OLDV	SL	GVVLY	VL	W	CC	AL	PE	D	S	G				
SIK.h	SGEB	ET	CS	SPY	AAPE	FLG	KEYE	G	OLDI	SL	GVVLY	VL	W	CC	AL	PE	D	S	G				
34863371.m	TGEL	ET	CS	SPY	AAPE	FLG	QQYE	G	OLDI	SM	VVLY	VL	W	CC	AL	PE	D	S	G				
38569497.m	TGEL	ET	CS	SPY	AAPE	FLG	QQYE	G	OLDI	SM	VVLY	VL	W	CC	AL	PE	D	S	G				
QIK.h	SGEL	ET	CS	SPY	AAPE	FLG	QQYE	G	OLDI	SM	VVLY	VL	W	CC	AL	PE	D	S	G				
42200016.q	PGQF	ET	CS	SPY	AAPE	FLG	KSVD	GAADV	SC	GVVLY	VL	W	CC	AL	PE	D	S	G					
18424001.p	KSGD	ET	CS	SPY	AAPE	FLG	KQYD	GAADV	SC	GVVLY	VL	W	CC	AL	PE	D	S	G					
60750012.q	RKDGL	ET	CS	SPY	AAPE	FLG	AYC	CS	SSD	RC	N	L	P	D	D	C	S						
AK065588.q	CNDGL	ET	CS	SPY	AAPE	FLG	RQYD	GS	LS	D	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G		
AK059282.q	CNDGL	ET	CS	SPY	AAPE	FLG	RQYD	GS	LS	D	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G		
15221136.p	REDGL	ET	CS	SPY	AAPE	FLG	EGYD	GA	AS	D	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G		
18401539.p	RDDGL	ET	CS	SPY	AAPE	FLG	RQYD	GA	AS	D	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G		
22531703.q	QGGAL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
15233820.p	EQGV	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
AK102270.q	KGVGL	ET	CS	TPY	AAPE	FLG	NQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
15238499.p	QBGVL	ET	CS	TPY	AAPE	FLG	QYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
AK069726.q	REDGL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
18397430.p	REDGL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
83601877.q	KADGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
83554692.q	KADGL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
83580297.q	KDDGL	ET	CS	TPY	AAPE	FLG	QYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
30683336.p	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
30683332.p	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
30683328.p	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
30683340.p	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
30688180.p	QOAG	GD	GL	ET	CS	TPY	AAPE	FLG	QYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G	
30688193.p	RQV	GD	GL	ET	CS	TPY	AAPE	FLG	QYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G	
83600247.q	KEDGL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
72270023.q	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
68700006.q	RDDGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
15228920.p	QNGGL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
15233500.p	EHR	NN	GL	ET	CS	TPY	AAPE	FLG	RQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G	
15227739.p	RDDGL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G			
15241067.p	DQIR	PD	GL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G	
15224888.p	HPD	GM	GL	ET	CS	TPY	AAPE	FLG	KQYD	GA	AD	I	SC	GVVLY	VL	W	CC	AL	PE	D	S	G	

AK069231.g --- RGDGLHHTTCCTPAYVAPVFLVHK --- RGYDAKADI SCGVILFVLLAC YLPEFNETN LVILVYRNTHES --- NRYRCPWFVSEARGLLRLDP --- NPKTRIT --- FSKIMDRPWF ---  
AK107068.q --- RHDGLHHTTCCTPAYVAPVFLVSD --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLING --- EFKVDFWFTDARLISLRLLDP --- NPTRIT --- TDELVAKPWF ---  
50040004.q --- RPDGLHHTTCCTPAYVAPVFLVLAG --- RGYDAKADI SCGVILFVLLAC ALPEFDDN LVCMYRKRIRRG --- DFCCPPWTDARLISLRLLDP --- NPTRIT --- VAGLSTPWF ---  
36160002.q --- RADGLHHTTCCTPAYVAPVFLVIRD --- RGYDAKADI SCGVILFVLLAC SLPEFDDN IVLYRKAQRG --- DYRCFAMLSDDARLISLRLLDP --- NPTRIT --- VAGLSTPWF ---  
AK065589.q --- CQKQDGLHHTTCCTPAYVAPVFLVINK --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- DVKFPQWETDVRLLSRLLD --- NPTRIT --- VEKLVSHPWF ---  
15235768.p --- EHLKQDGLHHTTCCTPAYVAPVFLVHK --- RGYDAKADI SCGVILFVLLAC YLPEFDDNL VMYRKLISKG --- DFKCGMLSDARLISLRLLDP --- NPTRIT --- BEKVMDSPPWF ---  
15218854.p --- RQDGLCHHTTCCTPAYVAPVFLVTR --- RGYDAKADI SCGVILFVLLAC HLPYDKN VMYRKLISKG --- EFCRFRWSSDARLISLRLLDP --- NPTRIT --- BEKVMDSPPWF ---  
15226241.p --- KQEGICQHTTCCTPAYVAPVFLVTR --- RGYDAKADI SCGVILFVLLAC YLPEFDDKN LLVMYRKLISKG --- QFKCKWFSDELARLVTRMDT --- NPTRIT --- BEKVMDSPPWF ---  
15242507.p --- DQIRQDGLHHTTCCTPAYVAPVFLVAR --- RGYDAKADI SCGVILFVLLAC FLPEFDRNV MAMYRKLISKG --- DFCRPFVFEINRLRLMDT --- KPERFT --- MFDIMETSWF ---  
15233981.p --- DQIRQDGLHHTTCCTPAYVAPVFLVAR --- RGYDAKADI SCGVILFVLLAC YLPEFDRNV MAMYRKLISKG --- EFCRPFVFEINRLRLMDT --- KPERFT --- MFDIMETSWF ---  
83500991.q --- GMRDGLHHTTCCTPAYVAPVFLVSR --- RGYDAAGADI SCGVILFVLLAC YLPEFDRN LAQMYRKLISKG --- DFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK101442.q --- DDDGLHHTTCCTPAYVAPVFLVRR --- RGYDAKADI SCGVILFVLLAC YLPEFHDHN IMVYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK066778.q --- HFDGLHHTTCCTPAYVAPVFLVAR --- RGYDAKADI SCGVILFVLLAC YLPEFHDQN LMAMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK103032.q --- RQDGLHHTTCCTPAYVAPVFLVSR --- RGYDAKADI SCGVILFVLLAC YLPEFHDN LIBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
83533541.q --- RQDGLHHTTCCTPAYVAPVFLVSR --- RGYDAKADI SCGVILFVLLAC YLPEFHDN LIQMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
83510562.q --- RHDGLHHTTCCTPAYVAPVFLVSR --- RGYDAKADI SCGVILFVLLAC YLPEFHDN LIBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
65420021.q --- RQDGLHHTTCCTPAYVAPVFLVSK --- RGYDAKADI SCGVILFVLLAC YLPEFQGFN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
65410023.q --- RQDGLHHTTCCTPAYVAPVFLVSK --- RGYDAKADI SCGVILFVLLAC YLPEFQGFN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
15241066.p --- DSRQDGLHHTTCCTPAYVAPVFLVSRN --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
15242509.p --- ESKQDGLHHTTCCTPAYVAPVFLVSK --- RGYDAKADI SCGVILFVLLAC FLPEFQDN VMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
18424099.p --- DCKRQDGLHHTTCCTPAYVAPVFLVNR --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
15240687.p --- DCKRQDGLHHTTCCTPAYVAPVFLVNR --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK101355.q --- CKRQDGLHHTTCCTPAYVAPVFLVSR --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK072868.q --- CKRQDGLHHTTCCTPAYVAPVFLVNR --- RGYDAKADI SCGVILFVLLAC YLPEFSDKN VMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK066541.q --- CKRQDGLHHTTCCTPAYVAPVFLVNR --- RGYDAKADI SCGVILFVLLAC FLPEFQHN YAKMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
AK061220.q --- EQILQDGLHHTTCCTPAYVAPVFLVRK --- RGYDAKADI SCGVILFVLLAC FLPEFQDN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
30683398.p --- EQILQDGLHHTTCCTPAYVAPVFLVKK --- RGYDAKADI SCGVILFVLLAC FLPEFQDN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
15242479.p --- GRTGSSDGLHHTTCCTPAYVAPVFLVRN --- RGYDAKADI SCGVILFVLLAC FLPEFQDN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
83554626.q --- GALHHTTCCTPAYVAPVFLVSR --- RGYDAKADI SCGVILFVLLAC YLPEFSDSN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
83532317.q --- QQLGATDGLAHTTCCTPAYVAPVFLVHK --- RGYDAKADI SCGVILFVLLAC YLPEFSDGN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
43510001.q --- QHLGATDGLAHTTCCTPAYVAPVFLVHK --- RGYDAKADI SCGVILFVLLAC YLPEFSDGN LMBMYRKLISKG --- EFCRPFVFEINRLRLMDT --- NPORAT --- AEGIMNSWF ---  
31213063.f --- EDDKLYTLDYMPPEFVSPVNVNK --- GYELGQDM CVGILTYVLLSG VSPFLGRND RETLTKIREG --- KWTFIGSVMKNSIARDLIRLLVY --- BEKHRMT --- TRDADNHSWF ---  
24762491.f --- RHNLTLDYMPPEFVSPVNVNK --- EGVNFSHDM TVGLTYVLLSG HNPLGLID DRETLTKIREG --- RWFDFKDEINTHSODDGRDTRRLVY --- SPBERMD --- VKTADKHPWF ---  
19922872.f --- RHNLTLDYMPPEFVSPVNVNK --- EGVNFSHDM TVGLTYVLLSG HNPLGLID DRETLTKIREG --- RWFDFKDEINTHSODDGRDTRRLVY --- SPBERMD --- VKTADKHPWF ---  
17507595.w --- GTQEKYMAETPEFVSPVNVNK --- EKL DYHDM SIGVLYVLLSG YSPFLGDN LGETYCNVEKG --- VWEFTEEPDVTSEAKDFVRLVY --- DQSKRML --- PHEGLOHPWF ---  
25145902.w --- KKSVKLFTPEFVSPVNVNK --- QPV CLSDM TVGVLYVLLSG LSPFLGDS DEDTLANVSAS --- DWDFDSDVDDYSLAKDFTRMLIK --- DKRKRMS --- VQDADREHPWF ---  
25145904.w --- KKSVKLFTPEFVSPVNVNK --- QPV CLSDM TVGVLYVLLSG LSPFLGDS DEDTLANVSAS --- DWDFDSDVDDYSLAKDFTRMLIK --- DKRKRMS --- VQDADREHPWF ---  
31242057.i --- NPNEWKISTTAPEFVSPVNVNK --- EPV EFTDM AVGVLANVLLSG LSPFAGETD IDTLKMKQK --- TWDFDEAFRDSSEAKDFTRMLIK --- NTEKRMT --- ABEGLSHAWL ---  
31242065.i --- NPNEWKISTTAPEFVSPVNVNK --- EPV EFTDM AVGVLANVLLSG LSPFAGETD IDTLKMKQK --- TWDFDEAFRDSSEAKDFTRMLIK --- NTEKRMT --- ABEGLSHAWL ---  
28558739.f --- NEVKITITTAPEFVSPVNVNK --- EPV EFTDM AVGVLANVLLSG LSPFAGDN DVOTLKNVKAC --- DWDFDEAFRDSSEAKDFTRMLIK --- NTEKRMT --- ABEGLSHAWL ---  
lkoa\_Twice --- KQSKVITITTAPEFVSPVNVNK --- PV EYDDM SVGVLYVLLSG LSPFAGEN DDETLRNVKSC --- DWNMDSAFSGISBDDKDFTRMLIA --- DNTRMT --- HQALBHPWL ---  
32565889.w --- KQSKVITITTAPEFVSPVNVNK --- PV EYDDM SVGVLYVLLSG LSPFAGEN DDETLRNVKSC --- DWNMDSAFSGISBDDKDFTRMLIA --- DNTRMT --- HQALBHPWL ---  
32565886.w --- KQSKVITITTAPEFVSPVNVNK --- PV EYDDM SVGVLYVLLSG LSPFAGEN DDETLRNVKSC --- DWNMDSAFSGISBDDKDFTRMLIA --- DNTRMT --- HQALBHPWL ---  
34869218.m --- ENAGSKVLFSTPEFVSPVNVNK --- EPI EYDDM SIGVLYVLLSG LSPFMGND NETLANVSA --- TWDFDDEAFDEISDDAKDFISNLLKK --- DMKNRLD --- CTGLOHPWL ---  
smMLCK.h --- NAGSKVLFSTPEFVSPVNVNK --- EPI EYDDM SIGVLYVLLSG LSPFMGND NETLANVSA --- TWDFDDEAFDEISDDAKDFISNLLKK --- DMKNRLD --- CTGLOHPWL ---  
37620153.m --- NAGSKVLFSTPEFVSPVNVNK --- EPI EYDDM SIGVLYVLLSG LSPFMGND NETLANVSA --- TWDFDDEAFDEISDDAKDFISNLLKK --- DMKNRLD --- CTGLOHPWL ---  
31198181.i --- CASSPTRLVFTPEFVSPVNVNK --- EPI EYDDM SIGVLYVLLSG LSPFMGND VDTFSNITRA --- EYDFDDEAFDVSSEAKDFISNLLKK --- ROEBRLT --- ACOGLSEWL ---  
31198185.i --- CASSPTRLVFTPEFVSPVNVNK --- EPI EYDDM SIGVLYVLLSG LSPFMGND VDTFSNITRA --- EYDFDDEAFDVSSEAKDFISNLLKK --- ROEBRLT --- ACOGLSEWL ---  
24653974.f --- TKAPVRLVFTPEFVSPVNVNK --- EPI EYDDM SVGVLYVLLSG LSPFMGDT DVETFSNITRA --- DYYDDEAFDVSSEAKDFISNLLKK --- RKEDRLT --- ACOGLSEWL ---  
24653972.f --- TKAPVRLVFTPEFVSPVNVNK --- EPI EYDDM SVGVLYVLLSG LSPFMGDT DVETFSNITRA --- DYYDDEAFDVSSEAKDFISNLLKK --- RKEDRLT --- ACOGLSEWL ---  
24653970.f --- TKAPVRLVFTPEFVSPVNVNK --- EPI EYDDM SVGVLYVLLSG LSPFMGDT DVETFSNITRA --- DYYDDEAFDVSSEAKDFISNLLKK --- RKEDRLT --- ACOGLSEWL ---  
24653968.f --- TKAPVRLVFTPEFVSPVNVNK --- EPI EYDDM SVGVLYVLLSG LSPFMGDT DVETFSNITRA --- DYYDDEAFDVSSEAKDFISNLLKK --- RKEDRLT --- ACOGLSEWL ---  
24653966.f --- TKAPVRLVFTPEFVSPVNVNK --- EPI EYDDM SVGVLYVLLSG LSPFMGDT DVETFSNITRA --- DYYDDEAFDVSSEAKDFISNLLKK --- RKEDRLT --- ACOGLSEWL ---  
38074389.m --- KPREKKNVFTPEFVSPVNVNK --- FV SFSDM SVGVLYVLLSG LSPFLGDN AETLNLAC --- RWDLEDEFQDISEAKDFISNLLKK --- EKSWRIS --- ASBAKHPWL ---  
34875380.m --- KPREKKNVFTPEFVSPVNVNK --- FV SFSDM SVGVLYVLLSG LSPFLGDN AETLNLAC --- RWDLEDEFQDISEAKDFISNLLKK --- EKSWRIS --- ASBAKHPWL ---  
SgK085.h --- KPREKKNVFTPEFVSPVNVNK --- FV SFSDM SVGVLYVLLSG LSPFLGDN AETLNLAC --- RWDLEDEFQDISEAKDFISNLLKK --- EKSWRIS --- ASBAKHPWL ---  
caMLCK.h --- KPREKKNVFTPEFVSPVNVNK --- EFV SFSDM SVGVLYVLLSG LSPFLGET DAETMNFVNC --- SWDFDADTFKGLSSEAKDFISNLLKK --- EKSORMS --- ATOCUKHEWL ---  
30425168.m --- KPREKKNVFTPEFVSPVNVNK --- EFV SFSDM SVGVLYVLLSG LSPFLGET DAETMNFVNC --- SWDFDADTFKGLSSEAKDFISNLLKK --- EKSORMS --- ATOCUKHEWL ---  
34851393.m --- KPREKKNVFTPEFVSPVNVNK --- QI SFSDM SVGVLYVLLSG LSPFLGDD DTELLNVLSA --- NWFDEETFEAVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
skMLCK.h --- FNEKKNVFTPEFVSPVNVNK --- QI SFSDM SVGVLYVLLSG LSPFLGDD DTELLNVLSA --- NWFDEETFEAVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
1705364.m --- NPREKKNVFTPEFVSPVNVNK --- EPI SFATDM SVGVLYVLLSG LSPFAGEDD IQTMNLTIG --- RWFDFLDEAFDVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
31197761.i --- DPNKQVLFSTPEFVSPVNVNK --- CI SYGDM SVGVLYVLLSG LSPFMGND DIETMNVITA --- KYDFDDEAFDVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
19921930.f --- PDKRVRLVFTPEFVSPVNVNK --- EPI SFATDM SVGVLYVLLSG LSPFAGEDD IQTMNLTIG --- RWFDFLDEAFDVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
31200097.i --- DPKQVLMFTPEFVSPVNVNK --- EPI SFATDM SVGVLYVLLSG LSPFAGEDD IQTMNLTIG --- RWFDFLDEAFDVSSEAKDFISNLLKK --- DQARMN --- AACGLAHPWL ---  
35902617.m --- PCEPOYCOYTPPEFVSPVNVNK --- FV SGVDDI EGVVAPLCTE LSPFVGEN DRTTLNLRN --- YNFAEETTFLLSREARDFLLKLVY --- QDRLEFT --- ABEGLSHAWL ---  
Obscn.h --- AELQFSGYSGPEFVSPVNVNK --- FV SEASDI AMGVLYVLLSG LSPFAGES DRATLNVLEG --- YNFAEETTFLLSREARDFLLKLVY --- QDRLEFT --- ABEGLSHAWL ---  
34870773.m --- SQKVPPEPEKDYLETMAPELLEGG --- GA VHQDDI AIGVYVLLSG EYPSSEGT RDKQKPKRG --- LIQLSRYVAGLSSGAVVFTQSSCA --- RFWGFC --- ASTLOCCWL ---  
38091375.m --- EKVPAPEKDYLETMAPELLEGG --- QGA VHQDDI AIGVYVLLSG EYPSSEGT TRDKQKPKRG --- LIRLSRYVAGLSSGAVVFTQSSCA --- QFWGFC --- ASTLOCCWL ---  
34876910.m --- RTGTFLEFGdIqldIclIAPVVRGD --- PI GSATDI SVGVLYVLLSG YSPFYEFPD QETEARVGG --- RFDFAQLYPNISQSATLFRKLVY --- HPWSRFS --- FODDARHPWL ---  
SPG.h --- ALRPHGHRTTPEFVSPVNVNK --- EPI GSATDI SVGVLYVLLSG RSPFYEFPD QETEARVGG --- RFDFAQLYPNISQSATLFRKLVY --- HPWSRFS --- FODDARHPWL ---  
14091744.m --- SGHFBHLLTTPPEFVSPVNVNK --- FV SLGTDI SVGVLYVLLSG VSPFLDES KEETCINCRV --- DFSPFHEYCGVSNARDSTINVLIOE --- DFRFRFT --- AATCLOHPWL ---  
Trad.h --- GHFBHLLTTPPEFVSPVNVNK --- FV SLGTDI SVGVLYVLLSG VSPFLDES KEETCINCRV --- DFSPFHEYCGVSNARDSTINVLIOE --- DFRFRFT --- AATCLOHPWL ---  
34854901.m --- TTYHQLLTPPEFVSPVNVNK --- FV SLTADD SVGVLYVLLSG VSPFLDSS VEETCINCRV --- DFSPFHEYCGVSNARDSTINVLIOE --- DFRFRFT --- AATCLOHPWL ---  
Trio.h --- TTYHQLLTPPEFVSPVNVNK --- FV SLTADD SVGVLYVLLSG VSPFLDSS VEETCINCRV --- DFSPFHEYCGVSNARDSTINVLIOE --- DFRFRFT --- AATCLOHPWL ---  
31204597.i --- AEKNKYEIVTTPPEFVSPVNVNK --- PL SLQDDI SVGVLYVLLSG LSPFAGDSK QETFLNVK --- DTFPDDYFKGYSKAKDFISNLLKK --- DPAKRS --- AALALOBWL ---  
24641315.f --- EGINVREMACTPPVAPVFLVLOY --- EPL SLLTDI SVGVLYVLLSG LSPFAGDT KQETFLNVK --- DTFPDDYFKGYSKAKDFISNLLKK --- DPAKRS --- AALALOBWL ---  
17505691.w --- RGLITGELISPEFVSPVNVNK --- YPL TLATDM SVGVLYVLLSG LSPFAGDN DNETLANVDS --- ALTFFDNLFGVSVVAIDFTRMLI --- KPNDRN --- VDBADHPWL ---  
19173746.m --- GNASBREMCTPEVAPVFLVND --- PI TTAADM NIGITANMLLTH TSPFVGEDN QETFLNVK --- QDSSSPGNFSDAGDFVRLVY --- IPVSRIT --- VDBADHPWL ---  
31559988.m --- NASBREMCTPEVAPVFLVND --- PI TTAADM NIGITANMLLTH TSPFVGEDN QETFLNVK --- NVDYSEEMFSSVSLATDTRISLVK --- NPKRFT --- ABEGLSHAWL ---  
DRAK2.h --- HACBREMCTPEVAPVFLVND --- PI TTAADM NIGITANMLLTH TSPFVGEDN QETFLNVK --- NVDYSEEMFSSVSLATDTRISLVK --- NPKRFT --- ABEGLSHAWL ---  
DRAK1.h --- SEBREMCTPEVAPVFLVND --- PI SMAADM SVGVLYVLLSG LSPFLGND KQETFLNVK --- NVDYSEEMFSSVSLATDTRISLVK --- NPKRFT --- ABEGLSHAWL ---  
17508221.w --- PGLAVKDMVSTPEFVSPVNVNK --- eAL SPATDM AVGVLYVLLSG LSPFLGDN DRTFSNITRV --- RYHSDRYFKNLSKAKDFISNLLKK --- DQARMN --- ABEGLSHAWL ---  
34328167.m --- dGVEFKNIFSTPEFVSPVNVNK --- ePL SLEADM SVGVLYVLLSG LSPFLGDT KQETFLNVK --- SYDFDEEFFSQTSELAKDFIRKLVY --- BTRKRLT --- HQBAURHPWL ---  
DAPK2.h --- dGVEFKNIFSTPEFVSPVNVNK --- ePL SLEADM SVGVLYVLLSG LSPFLGDT KQETFLNVK --- SYDFDEEFFSQTSELAKDFIRKLVY --- BTRKRLT --- HQBAURHPWL ---

24371219.m ---- fGNEFKNIFSTPEFVAPETVNY ---- ePL GLEADM SIGVIVYLLISG ASPFHGDT KQETLANVASV ---- NYDFEDEFPRNITSLAKDFIRRLIVK DPKKRTM TQDSLOHPWI  
1jkk\_DAPK fGNEFKNIFSTPEFVAPETVNY ePL GLEADM SIGVIVYLLISG ASPFHGDT KQETLANVASV NYDFEDEFPRNITSLAKDFIRRLIVK DPKKRTM TQDSLOHPWI  
DAPK1.h fGNEFKNIFSTPEFVAPETVNY ePL GLEADM SIGVIVYLLISG ASPFHGDT KQETLANVASV NYDFEDEFPRNITSLAKDFIRRLIVK DPKKRTM TQDSLOHPWI  
lcki\_Titin PGDNFRLLFLTAPETVAPETVHQH DVV STADDM SLGGLVYLLISG INPFLAET NQOIHENMNA EYTFDEEAFKFTISEAMDFVDRLLVK ERKSRTM ASBALCHPWI  
TTN.h PGDNFRLLFLTAPETVAPETVHQH DVV STADDM SLGGLVYLLISG INPFLAET NQOIHENMNA EYTFDEEAFKFTISEAMDFVDRLLVK ERKSRTM ASBALCHPWI  
11037792.m SSKTTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC DYPLPLPSDHYSSERLRQLVNLCNP DPEKRED IAVV  
NEK7.h SSKTTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC DYPLPLPSDHYSSERLRQLVNLCNP DPEKRED VTYV  
25146954.w SSKTTAAHSLVSTPVMYMSPERHDES gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC EYPLPLADIVYSQQLRELVSRLPL EASKRPD TSEVLQVA  
33636728.m SSETTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC DYPLPLGEHYSKRLRELVSMLYPP DPHKRED i-vyVHOVAROMHV  
11037794.m SSETTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC DYPLPLGEHYSKRLRELVSMLYPP DPHKRED i-gyVHOVAROMHV  
NEK6.h SSETTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC DYPLPLPSDHYSSERLRQLVNLCNP DPEKRED IAVV  
34880428.m SSKTTAAHSLVSTPVMYMSPERHEN gY NRKSDI SLGGLLYEMAAL QSPRYGDKm nLYSLCKKTEQC NLRFFPKIFRQVSSMAKDLRKLCK DASRRFS AEAALRHPWI  
15223870.p GEGETTEGVVSTPVMYAPPEVMG YSY GKVDL SAGVVLVYLLISG TPPEYGETA EEIFEAVLRG NLRFFPKIFRQVSSMAKDLRKLCK DASRRFS AEAALRHPWI  
18396914.p GGETAGVWVSTPVMYAPPEVMGR KY DEKVDI SAGVVLVYLLISG EEPNGET AEIFEAVLRG NLRFFPKIFRQVSSMAKDLRKLCK DASRRFS AEAALRHPWI  
83513892.q ESGGSAGLVSTPVMYAPPEVLAG GBY GKADV SAGVVLVYLLISG GALTPEGGET AAVYLAVALRG SVRFPFRFLFAGVSSAAKDLRMRMRCK DWRWRFES AEOVLKSSYI  
33944949.z ---- INEVCVSGPTCAPETVHLLIGITQGFdENGYQY DEKVDI SLGGLVYLLISG QLPTGGT PTDVFKSHLRD SVPSPSTITGCVYSKRLRELVSMLYPP KASNRFS ARAALCHPWI  
AK060738.q PGKKFPHDIVGSAYYVAPPEVLRK RS GSEDDV SIGVIVYLLISG RRPFWNKT EDGIFRVLNRN KDFRKKFWPQISSGAKDLVKKLLVK NPARLRT AAALCHPWI  
15234291.p KPGVKQDDIVGSAYYVAPPEVLRK RS GSEDDV SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK KDFRREVPWPIHSAGAKDFVKKLLVK EPRARLT AAALCHPWI  
15227920.p PGKKFPHDIVGSAYYVAPPEVLRK RS GSEDDV SIGVIVYLLISG RRPFWNKT EDGIFRVLNRN KDFRKRKFWPPIHSAGAKDFVKKLLVK DPARLRT AAALCHPWI  
30698202.p KPQKRPHDIVGSAYYVAPPEVLRK RS GSEDDV SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK KDFSRKFWPPIHSAGAKDFVKKLLVK DPARLRT AAALCHPWI  
15239300.p KPQKRPHDIVGSAYYVAPPEVLRK RS GSEDDV SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK KDFSRKFWPPIHSAGAKDFVKKLLVK DPARLRT AAALCHPWI  
83554293.q PDERNDIVGSAYYVAPPEVLRH SY GLEADM SIGVIVYLLISG SRPFWART ESGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
83602259.q PDERNDIVGSAYYVAPPEVLRH SY GLEADM SIGVIVYLLISG SRPFWART ESGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
15226841.p PDERNDIVGSAYYVAPPEVLRH TY GLEADM SIGVIVYLLISG SRPFWART ESGIFRAVLKA EENFEAPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
15229002.p RPDERNDIVGSAYYVAPPEVLRH TY GLEADM SIGVIVYLLISG SRPFWARSE SGIFRAVLKA EPNFEAPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
15222781.p PDERNDIVGSAYYVAPPEVLRH SY TTEADV SIGVIVYLLISG SRPFWART ESGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DRRRMS ASQALCHPWI  
15230288.p PDERNDIVGSAYYVAPPEVLRH SY TTEADV SIGVIVYLLISG SRPFWART ESGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DRRRMS ASQALCHPWI  
AK067709.q PDERNDIVGSAYYVAPPEVLRHC Y TTEADV SIGVIVYLLISG SRPFWART ESGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DRRRMS ASQALCHPWI  
15229785.p RPDERNDIVGSAYYVAPPEVLRH SY TTEADI SVGLIVYLLISG SRPFWARTE SGIFRAVLKA EPEFDEAPWPIHSAGAKDFVKKLLVK DRRRMS ASQALCHPWI  
30689449.p RYDORNDIVGSAYYVAPPEVLRH SY STEADM SIGVIVYLLISG SRPFWGRTE SATFRQLRA NNFEDDLPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
15229129.p RFDORNDIVGSAYYVAPPEVLRH SY STEADI SIGVIVYLLISG SRPFWGRTE SATFRQLRA NNFDDLPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
14670086.q PDERNDIVGSAYYVAPPEVLRH SY STEADM SIGVIVYLLISG SRPFWART ESGIFRVLNRN EPNFDDAPWPIHSAGAKDFVKKLLVK DYKRRTM AAALCHPWI  
15226426.p PDERNDIVGSAYYVAPPEVLRH SY STEADI SIGVIVYLLISG SRPFWART ESGIFRVLNRN EPNYDDVWPIHSAGAKDFVKKLLVK DRRRMS ASQALCHPWI  
26400013.q PDERNDIVGSAYYVAPPEVLRH SY SBEADI SIGVIVYLLISG SRPFWART ESGIFRVLNRN DFNDDSPWPIHSAGAKDFVKKLLVK DYKRRTM AVQALCHPWI  
323028350.p SKPKTKQEVIRKFASTAYYAPPEVLOG KY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA KIDLVDSESKWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15234430.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15234432.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
61200004.q BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15223629.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15231140.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15220658.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15234656.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15234435.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15234441.p BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
83524386.q BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
83534555.q BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
27080007.q BEOKVYQDLASDYIYAPPEVLOG NY KEKEDI SAGIILYLLISG KPEVTEPE AQMPSELSA EDYSEEPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15236560.p KPGDKFKDLVGSAYYVAPPEVLRK NY GSEDDV SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK QLDPSADPWPIHSAGAKDFVKKLLVK DPKRRTM AAEVLSLVV  
ngvPIAGVFRDIVGSAYYVAPPEVLRK SY GSEADI SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK LFIAMDVLRVRLMHS DPKRRTM AYDVL  
39310022.q IVGSAYYVAPPEVLRK SY GSEADI SVGLIVYLLISG RRPFWNKTQ DGIFNEMVRK LFIAMDVLRVRLMHS DPKRRTM AYDVL  
83590296.q EGEVFRDIVGSAYYVAPPEVLRK KY GSEADI SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK LFIAMDVLRVRLMHS DPKRRTM AYDVL  
15239716.p KPGVFKDIVGSAYYVAPPEVLRK KY GSEADI SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK LFIAMDVLRVRLMHS DPKRRTM AYDVL  
15239888.p KPGVFKDIVGSAYYVAPPEVLRK KY GSEADI SIGVIVYLLISG RRPFWNKTQ DGIFNEMVRK LFIAMDVLRVRLMHS DPKRRTM AYDVL  
64750013.q PGDKFSDVWGSAYYVAPPEVLRK IY GSEADV SAGVIVYLLISG VFPFWAET ESGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
36363009.q PGDKFSDVWGSAYYVAPPEVLRK IY GSEADV SAGVIVYLLISG VFPFWAET ESGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
15233947.p KPGQVYTDVWGSAYYVAPPEVLRK CY GSEDDV SAGVIVYLLISG VFPFWAETE SGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
15219693.p GQVYTDVWGSAYYVAPPEVLRK Y GSEDDV SAGVIVYLLISG VFPFWAETE SGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
15237791.p TPGEAFSDVWGSAYYVAPPEVLRK BY GSEDDV SAGVIVYLLISG VFPFWAETE SGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
83600262.q GQVTELVWGSAYYVAPPEVLRK RY GSEDDV SAGVIVYLLISG VFPFWAETE SGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
3820005.q GQVTELVWGSAYYVAPPEVLRK RY GSEDDV SAGVIVYLLISG VFPFWAETE SGIFRVLNRN KIDLFESEDPWPIHSAGAKDFVKKLLVK DPKRRTM ABEVLCHPWI  
24900012.q PGQVFDVWGSAYYVAPPEVLRK BY GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
15233737.p KPGQVFDVWGSAYYVAPPEVLRK BY GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
30679935.p GQIFKDDVWGSAYYVAPPEVLRK RY GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
15236966.p KPGQVFDVWGSAYYVAPPEVLRK RY GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
83514368.q GQVFDVWGSAYYVAPPEVLRK Y GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
AK066495.q GQVFDVWGSAYYVAPPEVLRK Y GSEADV TAGVIVYLLISG VFPFWAET QGIFDVLKGG YIDFSDPWPIHSAGAKDFVKKLLVK RPSBRLT AHQVLCHPWI  
15227525.p PGENFTDVWGSAYYVAPPEVLRK RY GSEADI SAGVIVYLLISG VFPFWAET EEIFEAVLRG ELDLTSDFWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15228350.p DEVTDVWGSAYYVAPPEVLRK RY GSEDDV SAGVIVYLLISG VFPFWAET EEIFEAVLRG ELDLTSDFWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
15238353.p KPDDVTDVWGSAYYVAPPEVLRK RY GSEADV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG DLDLSSDPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
59970025.q PGENYSDVWGSAYYVAPPEVLRK RY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG DLDLSSDPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
35450002.q GETFDVWGSAYYVAPPEVLRK BY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG DLDLSSDPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
15224978.p GETFDVWGSAYYVAPPEVLRK BY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG DLDLSSDPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
71190009.q GEVTDVWGSAYYVAPPEVLRK SY GSEADV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG DLDLSSDPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
74260024.q QGETFDVWGSAYYVAPPEVLRG KY GSEADV SAGVIVYLLISG VFPFWAET KQGVFEVLRG MLEFDADFWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
35450008.q GQVTDVWGSAYYVAPPEVLRK KY GSEADV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG RLDQSEEPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
36600010.q PGERFTQVWGSAYYVAPPEVLRK SY GSEADV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG GINFRQEPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
83564179.q kiSTSHRDRFTEVWGSAYYVAPPEVLRK SY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG AIDFNREPLRVSAGAKDFVKKLLVK NPSBRLT AKQVLCHPWI  
15225092.p PAQRNEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE EEIFEAVLRG NIDFRDWPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
30699042.p PGERFTEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE EEIFEAVLRG NIDFRDWPWPIHSAGAKDFVKKLLVK NPKKRIS AAEVLSLVV  
18394667.p KPQKFEIVGSAYYVAPPEVLRK DY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG VLDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
47280025.q PGEKFEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG NIDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
46590004.q PGEKFEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG NIDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
22331739.p KPGEKFEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG NIDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
30687323.p KPGEKFEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG NIDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI  
15239742.p KPGEKFEIVGSAYYVAPPEVLRK NY GSEDDV SAGVIVYLLISG VFPFWAETE QGIFDVLKGG NIDFKRDWPWPIHSAGAKDFVKKLLVK DPKRRTM AHQVLCHPWI

18416872.p ---KPGEQNEIVLSSPYMAPVFLRR---NYGSEVDV SAGVILYHLLCG VFPFWAETE ---QQVAQAHLRS ---VIDFKRDPWPRVSDAKDLVLRKMLFP---DPKRRILT ---AAQVLDHPHVI  
15227452.p ---PGERFNEIVLSSPYMAPVFLRR---SYGCEVDI SAGVILYHLLCG VFPFWAET ---EQGVAKAHLKS ---VIDFKRDPWPRVSDAKDLVLRKMLFP---DPKRRILT ---ACQVLDHPHVI  
53180023.q ---PGERFTEIVLSSPYMAPVFLRR---NYGSEVDV SAGVILYHLLCG VFPFWAETE ---EQGVAKAHLRS ---VIDFKRDPWPRVSDAKDLVLRKMLFP---DPKRRILT ---ACQVLDHPHVI  
30694663.q ---KPGEQNEIVLSSPYMAPVFLRR---NYGSEVDI SAGVILYHLLCG VFPFWAETE ---QQVAQAHLRS ---VIDFKRDPWPRVSDAKDLVLRKMLFP---DPKRRILT ---ACQVLDHPHVI  
68750013.q ---PGERFTEIVLSSPYMAPVFLRR---HYGSEVDV SAGVILYHLLCG VFPFWAET ---EQGVAKAHLRS ---VIDFKRDPWPRVSDAKDLVLRKMLFP---DPKRRILT ---AEQVLDHPHVI  
AK109479.q ---DGGKSGIAGSPAYVAPVFLVSGC---YSEKVDV SAGVILYHLLCG SLSPGGGS ---LDAVFAAKTV ---ELDFHSGPWEISLSLARDLISRMLNR---DVEPSRIT ---ADEVLS ---  
15222045.p ---AKGQTSGLIAGSPAYVAPVFLVSE---NYGSEVDV SAGVILYHLLCG VFPFWAETE ---DAVFAAKTV ---ELDFHSGPWEISLSLARDLISRMLNR---DVEPSRIT ---ADEVLS ---  
15222023.p ---KPGEKSGIVLSSPYMAPVFLVGLG---GYNQADVD SAGVILYHLLCG AFPPWCKTK ---SRIFDAVRAA ---DLRFSAPWEDNITSYAKDLIRGMFCV---DPSQRSLT ---ADEVLS ---  
CaMK4.h ---hQVLMKTVCTPTGYCAPVFLRG---AMGSEVDM SVGLIYHLLCG FEPFYDERG ---DQFMFRRLINC ---EYFIFSPWDDVSLNARDLVKLLVVL---DPKRRILT ---TFQALQHPHVI  
6753252.m ---hQVLMKTVCTPTGYCAPVFLRG---CAMGSEVDM SVGLIYHLLCG FEPFYDERG ---DQFMFRRLINC ---EYFIFSPWDDVSLNARDLVKLLVVL---DPKRRILT ---TFQALQHPHVI  
6978597.m ---hQVLMKTVCTPTGYCAPVFLRG---AMGSEVDM SVGLIYHLLCG FEPFYDERG ---DQFMFRRLINC ---EYFIFSPWDDVSLNARDLVKLLVVL---DPKRRILT ---TFQALQHPHVI  
17508559.w ---TKPNETMETICCTPTGYAPVFLRG---VPYTKQVDM AVGVIANHLLMSG IMPDDEDC ---RSRLYTHITA ---NYVYFQWSSGSLAKQVDSLLET---NSVBRSL ---SSAAMKHEVLI  
PSK2.h ---KKSQDVMKTLCTPTGYAPVFLVLRK---PYTSAVDM ALGVIANHLLSG FLPPDDES ---QTRLYRKLKQG ---KYNVTGEPWPSISLAKDFIDLKLLI---BAGHRMS ---AGQALRHPHVI  
34851710.m ---KKGDCLLKTICCTPTGYAPVFLVVRK---PYTNSVDM ALGVIANHLLSG TMPEDDN ---RTRLYRQLLRG ---KYSYLGEPWPSVSLAKDFIDLKLLI---DPGARMT ---ALQALRHPHVI  
27734116.m ---KKGDCLLKTICCTPTGYAPVFLVVRK---PYTNSVDM ALGVIANHLLSG TMPEDDN ---RTRLYRQLLRG ---KYSYLGEPWPSVSLAKDFIDLKLLI---DPGARMT ---ALQALRHPHVI  
PSK11.h ---KKGDCLLKTICCTPTGYAPVFLVVRK---PYTNSVDM ALGVIANHLLSG TMPEDDN ---RTRLYRQLLRG ---KYSYLGEPWPSVSLAKDFIDLKLLI---DPGARMT ---ALQALRHPHVI  
13027458.m ---NGLKKEFCCTPTGYAPVFLVGRQ---RYGRPVDC AIGVIMYHLLSG NFPFYEEVVE ---DKNLFKRLIAG ---DYEFDSFPYDDISQAARDLVTRLMEV---EQDQRIT ---ABEATSHHWI  
21704242.m ---NGLKKEFCCTPTGYAPVFLVGRQ---RYGRPVDC AIGVIMYHLLSG NFPFYEEVVE ---DKNLFKRLIAG ---DYEFDSFPYDDISQAARDLVTRLMEV---EQDQRIT ---ABEATSHHWI  
VACAMKL.h ---NGLKKEFCCTPTGYAPVFLVGRQ---RYGRPVDC AIGVIMYHLLSG NFPFYEEVVE ---DKNLFKRLIAG ---DYEFDSFPYDDISQAARDLVTRLMEV---EQDQRIT ---ABEATSHHWI  
39965096.y ---DSRDEVLITMASFGYAPVFLVMMKK---GHGKPVDM SMGVILYHLLCG YSPERSEG ---LQDLIECSNA ---QVTFHRYKRVSDSDAKDLIRKLLQV---KNDNRAT ---SGQALRHPHVI  
32422143.y ---DNKDEVLITMASFGYAPVFLVMMKK---GHGKPVDM SMGVILYHLLCG YSPERSEN ---LQDLIECSNG ---SVVHERHYWVSDSDAKDLIRKLLQV---KNDNRAT ---SGQALRHPHVI  
14318536.y ---KSEDELRYKASGLGYAPVFLVTDQ---GHGKCPDIL SIGVILYHLLCG YSPARAER ---VQDFLDECTTG ---EYFVKFHRVYVSDVSNKAKDFIRKLLNL---DPSQRIT ---AEBLSDPHVI  
6324557.y ---KGEEDLYKAAASLGYAPVFLVTDQ---GHGKCPDIL SIGVILYHLLCG YSPARAER ---VQDFLDECTTG ---RYVPTFHMVYVSDVSNKAKDFIRKLLNL---DPSQRIT ---ATELLDDPHVI  
39973857.y ---DEBQFHVLTICCTPTGYAPVFLFKIT---GHGKCPVDL ALGVIANHLLCG YTPDRDS ---DLEEMQAHINA ---DYSFTPIEFWRGVSDAKDFIRKLLI---DPSQRIT ---ABEALQHPHVI  
32421231.y ---DEBQFHVLTICCTPTGYAPVFLFKIT---GHGKCPVDL ALGVIANHLLCG YTPDRDS ---DLEEMQAHINA ---DYSFTPIEFWRGVSDAKDFIRKLLI---DPSQRIT ---ABEALQHPHVI  
19114376.y ---EDSQYMMWMTACTPTGYAPVFLFRIT---GYGKQVDM AIGVIMYHLLSG YTPARPS ---QVETEAHLAN ---EYTFNDPCNSGSHSTAKDFIRKLLI---DPSQRIT ---AADALRHPHVI  
23508433.z ---APNELKKEFCCTGYAPVFLVTLQ---GYNHRKVDK SIGIILYHLLSG KLPPFINK ---NTEMNTOKN ---YVLSFKDYIWKSSISSAKDLISLKEEL---NVEKRIS ---ANBALRHPHVI  
32564607.w ---RKKKRDLCCTPTGYAPVFLRQWYDNA---BGYSLEVDE ALGVIMYHLLCG CAPYHRRK ---QLMMLRLIQGG ---KFEFRNEQWANTAEAKNLIQLQLV---DPAKRIS ---SKBCLAHEVM  
31206627.i ---KEGKLNLDCTPTGYAPVFLKCNMFEDA---PGYSKEVDI ACGVIMYHLLCG CFPWHRRQ ---QVMLRLNMEG ---KYSFTSPEWADISSEDKDLIRKQVW---DPSQRIT ---VBEALRHPHVI  
24641365.f ---EGEKLNLDCTPTGYAPVFLKCNMFEGS---PGYSKEVDI ACGVIMYHLLCG CFPWHRRK ---QVMLRLNMEG ---KYSFTSPEWADISSEDKDLIRKQVW---DPSQRIT ---VBEALRHPHVI  
24641363.f ---EGEKLNLDCTPTGYAPVFLKCNMFEGS---PGYSKEVDI ACGVIMYHLLCG CFPWHRRK ---QVMLRLNMEG ---KYSFTSPEWADISSEDKDLIRKQVW---DPSQRIT ---VBEALRHPHVI  
24641361.f ---EGEKLNLDCTPTGYAPVFLKCNMFEGS---PGYSKEVDI ACGVIMYHLLCG CFPWHRRK ---QVMLRLNMEG ---KYSFTSPEWADISSEDKDLIRKQVW---DPSQRIT ---VBEALRHPHVI  
18034789.m ---EPGKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRQ ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
28481728.m ---AEGKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
PHKq2.h ---PQKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
13928776.m ---QPQKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
6755054.m ---PQKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
1phk\_Phk ---PQKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
PHKq1.h ---PQKRELCCTPTGYAPVFLKCNMDETH---PGYSKEVDL ACGVILYHLLCG SFPWHRRR ---QIMMLRMLMEG ---QYQFSSEPWDDRSNTVKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
16805062.z ---KDNKRDRLSTAYIYAPVFLRQ---KYNEKQDV SAGVILYHLLCG YFPFSGQN ---DQDIHKVKEG ---KYFDFDNDKNISSAEKELIKLMLTY---DYNKRIT ---AKBALNSKI  
23612547.z ---YSKMKDKITSTAYIYAPVFLRQ---TYDKKODI SAGVILYHLLCG CFPFNGSN ---EYDHLKKEVAG ---EYTFDLPQFKHSOKAKDLIRKMLMY---TSAVRIS ---ARDALRHPHVI  
23619315.z ---NNHNKSVWSTAYIYAPVFLRQ---KYDKKODI SAGVILYHLLCG YFPFNGKN ---NDEHLKKEVAG ---KFFEDSNYWARVSDAKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
23612188.z ---TOEFTTKACTPTGYAPVFLVQDGG---KYDKKODI SAGVILYHLLCG YFPFGDT ---DNBVLKVKVKG ---EFCFYENDVGSISSDAKDLIRKLLI---DPSQRIT ---VBEALRHPHVI  
23957748.z ---HNNYBTKACTPTGYAPVFLVQDGG---SYNKSODM SAGVILYHLLCG YFPFEGES ---DHEHLSMVKKG ---KYQFKGKLEWISSDAKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
34935429.m ---PDNQPQKACTPTGYAPVFLVTHN---GYDKKODI SAGVILYHLLCG QVFPQSHDRSLAVRIMKIKKG ---DYFSEFEGEAMKISSDAKDLIRKLLQV---DPSQRIT ---VBEALRHPHVI  
32563958.w ---lsqVASEPDLASVGSAEFMAPVFLVYGD---LKYDKKODI SAGVILYHLLCG YAPFGMCDDEQDFHRIODG ---EYFPEEENGMISSEAKDLVSNLKR---DPSQRIT ---VBEALRHPHVI  
17535673.w ---lsqVASEPDLASVGSAEFMAPVFLVYGD---LKYDKKODI SAGVILYHLLCG YAPFGMCDDEQDFHRIODG ---EYFPEEENGMISSEAKDLVSNLKR---DPSQRIT ---VBEALRHPHVI  
31207767.i ---ISSPNTAPQDTPVGSAEFMAPVFLVDFL---VGENSYD DKRQDL SAGVILYHLLCG YFPFSGNC ---EQD CG ---WnrgencrctCQELLFESIQBGRCYFPDSEWADISSEAKDLIRKLLQV---EAPKRLS ---ATAVLNHPHVI  
24646075.f ---ssPAATPQDTPVGSAEFMAPVFLVDFVGEAH---YD DKRQDL SAGVILYHLLCG YFPFSGNCGEQQLFESIQBG---KASNRLS ---AEAVLNHPHVI  
24646073.f ---ssPAATPQDTPVGSAEFMAPVFLVDFVGEAH---YD DKRQDL SAGVILYHLLCG YFPFSGNCGEQQLFESIQBG---KASNRLS ---AEAVLNHPHVI  
35903023.d ---ssP1STPBLTTCGSAEYMAPVFLVFAFSEAS---EATILY DKRQDL SAGVILYHLLCG YFPFVGRCSGDQNLVFAFSEAS---DAKQRLS ---AAQVLDHPHVI  
34862294.m ---sP1STPBLTTCGSAEYMAPVFLVFAFSEAS---IY DKRQDL SAGVILYHLLCG YFPFVGHGCSGDQNLVFAFSEAS---DAKQRLS ---AAQVLDHPHVI  
10946852.m ---sP1STPBLTTCGSAEYMAPVFLVFAFSEAS---IY DKRQDL SAGVILYHLLCG YFPFVGRCSGDQNLVFAFSEAS---DAKQRLS ---AAQVLDHPHVI  
MNK2.h ---sP1STPBLTTCGSAEYMAPVFLVFAFSEAS---IY DKRQDL SAGVILYHLLCG YFPFVGRCSGDQNLVFAFSEAS---DAKQRLS ---AAQVLDHPHVI  
34870347.m ---tP1TTPBLTTCGSAEYMAPVFLVFRDEA---TFY DKRQDL SAGVILYHLLCG YFPFVGHGCSGDQNLVFRDEA---DAKQRLS ---AAQVLDHPHVI  
10946850.m ---tP1TTPBLTTCGSAEYMAPVFLVFRDEA---TFY DKRQDL SAGVILYHLLCG YFPFVGHGCSGDQNLVFRDEA---DAKQRLS ---AAQVLDHPHVI  
MNK1.h ---tP1TTPBLTTCGSAEYMAPVFLVFRDQA---TFY DKRQDL SAGVILYHLLCG YFPFVGHGCSGDQNLVFRDQA---DAKQRLS ---AAQVLDHPHVI  
6754636.m ---GDMMTPQDTPVYAPQVLEAQRHQKtpTPYTY---NKSODL SAGVILYHLLCG YFPFYSKHHSRDKMRKRLMTG---KPEBRILT ---HBEVLDHPHVI  
MAPKAP5.h ---GDMMTPQDTPVYAPQVLEAQRHQKtpTPYTY---NKSODL SAGVILYHLLCG YFPFYSKHHSRDKMRKRLMTG---KPEBRILT ---HBEVLDHPHVI  
17534987.h ---RNVLMESHCTPTGYAPVFLVGR---ERYDKSODM SAGVILYHLLCG YFPFYSKMGVAPGMKRRRLG---KPEBRILT ---HBEVLDHPHVI  
32563961.w ---RNVLMESHCTPTGYAPVFLVGR---ERYDKSODM SAGVILYHLLCG YFPFYSKMGVAPGMKRRRLG---KPEBRILT ---HBEVLDHPHVI  
17539192.w ---SEPQEKTCCTPTGYAPVFLVGT---EKYDKSODM SAGVILYHLLCG YFPFYSQHGQSPGMKRRRLG---KPEBRILT ---HBEVLDHPHVI  
17539194.w ---SEPQEKTCCTPTGYAPVFLVGT---EKYDKSODM SAGVILYHLLCG YFPFYSQHGQSPGMKRRRLG---KPEBRILT ---HBEVLDHPHVI  
31240443.i ---FIKIDTCTCTPTGYAPVFLVGP---EKYDKSODI SAGVILYHLLCG FFPFYSNQGL APGMKRRIRTG---KPEBRILT ---HBEVLDHPHVI  
28571436.f ---TSYTLCTCTPTGYAPVFLVGP---EKYDKSODI SAGVILYHLLCG FFPFYSNHGLASPGMKRRIRTG---KPEBRILT ---HBEVLDHPHVI  
17864380.f ---TSYTLCTCTPTGYAPVFLVGP---EKYDKSODI SAGVILYHLLCG FFPFYSNHGLASPGMKRRIRTG---KPEBRILT ---HBEVLDHPHVI  
24639958.f ---TSYTLCTCTPTGYAPVFLVGP---EKYDKSODI SAGVILYHLLCG FFPFYSNHGLASPGMKRRIRTG---KPEBRILT ---HBEVLDHPHVI  
34865981.m ---YYVvktlgaerasspsalYAPVFLVGP---EKYDKSODM SAGVILYHLLCG FFPFYSNTGQ APGMKRRIRLG---KPEBRILT ---HBEVLDHPHVI  
31542089.m ---QNALCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG FFPFYSNTGQASPGMKRRIRLG---KPEBRILT ---HBEVLDHPHVI  
MAPKAP3.h ---TSNHSITCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG YFPFYSNHGLAIPGMKRRIRMG---KPEBRILT ---HBEVLDHPHVI  
25020823.m ---TSNHSITCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG YFPFYSNHGLAIPGMKRRIRMG---KPEBRILT ---HBEVLDHPHVI  
30017431.m ---SHNSITCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG YFPFYSNHGLAIPGMKRRIRMG---KPEBRILT ---HBEVLDHPHVI  
1kwp\_MPKP2 ---SHNSITCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG YFPFYSNHGLAIPGMKRRIRMG---KPEBRILT ---HBEVLDHPHVI  
MAPKAP2.h ---SHNSITCTCTPTGYAPVFLVGP---EKYDKSODM SAGVILYHLLCG YFPFYSNHGLAIPGMKRRIRMG---KPEBRILT ---HBEVLDHPHVI  
AK070533.q ---FSDPVALFSSIIYVSPFLHR---QEVSAASDM SVGLIYHLLCG CFPFHAAT ---NRKQKQRLQG ---EFSFQDHTNKISSDAKDLIRKLLI---DPSQRIT ---VBEALRHPHVI  
23509071.z ---SPSNMRCSPGYAPVFLVFKC---ASYGQVDFI SAGVILYHLLCG YFPFRCNN ---VKEHFKQMRG ---HFSFNTKHNKISSVAKDLIRKMLCK---NPDQRCT ---ALQALRHPHVI  
39951907.y ---GEESFTISCTPTGYAPVFLVVD---GRHRKTKAVDV SAGVILYHLLCG FFPFSDLESFPYLTQQLKNG---IFHYFSPYWDSVDPALSLIDCMVW---DPEKRYLT ---IDQALRHPHVI  
32419048.y ---GEESFTISCTPTGYAPVFLVVD---GRHRKTKAVDV SAGVILYHLLCG FFPFSDLESFPYLTQQLKNG---IFHYFSPYWDSVDPALSLIDCMVW---DPEKRYLT ---IDQALRHPHVI  
6320102.y ---GEMQFNILCTPTGYAPVFLVHKK---GYTRKVDL SAGVILYHLLCG FFPFSDQL ---GPPSRKBLQEA ---QITRQKFDYSPYWDVDPDLALDLIDSMVW---DPEKRYLT ---IDQALRHPHVI  
6321280.y ---RNNTAKTCTCTPTGYAPVFLVTSK---RYSMKVDM SIGQVLYHLLCG YFPFYEKN ---EKLLKKSIRG ---DYEFPLAFWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI  
6323277.y ---FSKNKTKCTCTPTGYAPVFLVKDE---RYSMKVDM SIGQVLYHLLCG YFPFYEKN ---EKLLKKSIRG ---DYEFPLAFWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI  
19115348.y ---WNSKATCTCTPTGYAPVFLVND---LYSKNVDM AMQVLYHLLCG FFPFEDEN ---IKDPAKVVNG ---EYEFPLAFWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI  
39946706.y ---WDNQMTCTCTPTGYAPVFLVKDE---RYSKNVDM AMQVLYHLLCG FFPFEDEN ---IKDPAKVVNG ---EYEFPLAFWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI  
32422321.y ---WDKQMTCTCTPTGYAPVFLVKDE---RYSKNVDM AMQVLYHLLCG FFPFEDEN ---IKDPAKVVNG ---EYEFPLAFWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI  
19075636.y ---WDSHTCTCTPTGYAPVFLVRDE---RYSKGVDM ALGQVLYHLLCG FFPFEDEN ---ISLTKKVSIRG ---EYFSLSPWDDISGAKNVAKLLI---DPSQRIT ---IDQALRHPHVI

25144034.w ---KDFGVSTHCCTPTPIYVAPSEVILNK---TCG---GKVDI---AAGVILYVLLIC---FFPFSDDGS---EQDFSAHMSG---EFSFSPSNDVDSVRLHLMCLHT---DPFPRYS---AGEILLDEBM  
34866453.m ---VRPHTVCGTPTPIYVAPSEILSE---KGM---GLEVDM---AAGVILYVLLIC---FFPERSPERD---QDFLFNIHQLG---QFELSPYVNDVNSDAARLDVLRNLVV---DPKRRYT---AQVLDHPPI  
27370432.m ---VRPHTVCGTPTPIYVAPSEILSEK---GY---GLEVDM---AAGVILYVLLIC---FFPERSPERD---QDFLFNIHQLG---QFELSPYVNDVNSDAARLDVLRNLVV---DPKRRYT---AQVLDHPPI  
DCAMKL3.h ---TRPHTVCGTPTPIYVAPSEILSEK---GY---GLEVDM---AAGVILYVLLIC---FFPERSPERD---QDFLFNIHQLG---HFELFPYVNDVNSDAARLDVLRNLVV---DPKRRYT---AQVLDHPPI  
31238489.i ---VRPHTVCGTPTPIYVAPSEILSEK---GY---GKIDV---AAGVILYVLLIC---FFPERSVSDNQ---QDFLFDAHLNG---YDFPFAFYVNDVNSDAARLDVLRNLVV---DPKRRYT---AQVLDHPPI  
34857906.m ---GPIYVCGTPTPIYVAPSEILAE---TCG---GKVDV---AAGVILYVLLIC---FFPERSENNLC---QDFLFDOILAG---KLEFPAYVNDVNSDAARLDVLRNLVV---NVEARCT---AGEILLDEBM  
40254281.m ---GPIYVCGTPTPIYVAPSEILAE---TCG---GKVDV---AAGVILYVLLIC---FFPERSENNLC---QDFLFDOILAG---KLEFPAYVNDVNSDAARLDVLRNLVV---NVEARCT---AGEILLDEBM  
DCAMKL2.h ---GPIYVCGTPTPIYVAPSEILAE---TCG---GKVDI---AAGVILYVLLIC---FFPERSENNLC---QDFLFDOILAG---KLEFPAYVNDVNSDAARLDVLRNLVV---NVEARCT---AGEILLDEBM  
17985955.m ---DPIYVCGTPTPIYVAPSEILAE---TCG---GKVDI---AAGVILYVLLIC---FFPERSGSDG---QDFLFDOILMG---QVDFPSPYVNDVNSDAARLDVLRNLVV---NVDQRFY---AQVLDHPPI  
9910164.m ---dGPLY---IVCGTPTPIYVAPSEILAE---tGy---GKVDI---AAGVILYVLLIC---FFPERSGSDG---QDFLFDOILMG---QVDFPSPYVNDVNSDAARLDVLRNLVV---NVDQRFY---AQVLDHPPI  
DCAMKL1.h ---dGPLY---IVCGTPTPIYVAPSEILAE---tGy---GKVDI---AAGVILYVLLIC---FFPERSGSDG---QDFLFDOILMG---QVDFPSPYVNDVNSDAARLDVLRNLVV---NVDQRFY---AQVLDHPPI  
23619097.z ---VDQNKTSAGTKAYLAPSEILFEN---QTINYSVKDDI---SLGILLFLLITC---FAPFK---YMRKELKRFES---NTLNLYANDISDDKDLISIMNV---DNDKRIE---IVETLHRRF  
23619489.z ---LGKKSISSTCCTLVVSPSEITSGT---gy---DWRSDI---SLGVLLYVLLIC---DVPEDDGK---TQIVE---SIFSPKLFDFVNLALDLIKKTFVV---VDNKRIR---LCELSSDPMF  
9628227.v ---YFYVQLPLTV---TIGMVAVNL---FRFA---ENFYLDLHK---RKNYIENHSTCKQHTBCIT---VNNKRLR---FKSLVSHPFM  
31198471.i ---QEGKLFSTYCTIYVCPSEVILAGN---KMGHEDEM---SLGVLLYVLLIC---ENPFLDIE---EHLK---ELLIPQBSLIEBYVLLSLDK---NPKRIT---MKOLICTEIL  
19922870.f ---EKGKLFSTYCTIYVCPSEVILAGN---EYV---GHEEL---ALGVILYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
34877679.m ---EKGKLFSTYCTIYVCPSEVILAGN---EYV---GHEEL---ALGVILYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
18497292.m ---ERKGLFYTCCTIYVCPSEVILAGN---EYV---GHEEL---ALGVILYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
PASK.h ---ERKGLFYTCCTIYVCPSEVILAGN---EYV---GHEEL---ALGVILYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
39940040.y ---RKGFNTMRPPRY---WVEdtma---rpktC---RSASVEMIVYK---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
32411247.z ---KSGPFDVFTGTLVYVAPSEVILAGN---pYK---GKQDV---ALGILLYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
6319302.y ---KSGPFDVFTGTLVYVAPSEVILAGN---pYK---GKQDV---ALGILLYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
6324527.y ---KSGPFDVFTGTLVYVAPSEVILAGN---pYK---GKQDV---ALGILLYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
19114824.y ---KNGPDPFR---TVGFAAPSEILRGe---kyl---GKQDI---ALGILLYVLLIC---ENPFLDIE---EHLK---AEIQIKBSLQSLRSLSSMLNK---DPKRYCT---MHQITDFPII  
20070430.m ---HDEPYTDFD---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
21918878.m ---HDEPYTDFD---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
PIM2.h ---HDEPYTDFD---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
21918881.m ---HDEPYTDFD---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
34933426.m ---HDEPYTDFD---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
18859233.d ---KDSMYTDFE---TRVYVAPSEVILSRH---QYHALPATV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
25143929.w ---EKATKKFQCTRSYVCPSEVILAGN---kYH---ALPLTV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
17552062.w ---EKATKKFQCTRSYVCPSEVILAGN---kYH---ALPLTV---SLGVLLYVLLIC---DIPSERDQ---EHLA---ELHFPARVSDCCALIRRCOAP---KPCSRFS---EBEILLDPM  
25143934.w ---RRSQYSDP---QTRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
12083583.m ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
21703944.m ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
PIM3.h ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
40254620.m ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
8393959.m ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
PIM1.h ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
27806485.m ---KDIVTDFD---TRVYVAPSEVILSRH---LMLPILFATS---SLGVLLYVLLIC---KLPFRNEI---QICLG---NVKFPDLSKEVQVVKSCIT---STSARAS---LAQIAHPWM  
31239769.i ---PAGSMETS---CGSPYVAPSEVILAGN---EKMDRRADV---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
24664868.f ---aGSMETS---CGSPYVAPSEVILAGN---EKMDRRADV---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
BRSL1.h ---GDSLSETS---CGSPYVAPSEVILAGN---EKMDRRADM---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
34861259.m ---GDSLSETS---CGSPYVAPSEVILAGN---EKMDRRADM---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
BRSL2.h ---GDSLSETS---CGSPYVAPSEVILAGN---EKMDRRADV---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
17569429.w ---eGSMETS---CGSPYVAPSEVILAGN---EKMDRRADV---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
13811953.z ---PNIMKETS---CGSPYVAPSEVILAGN---EKMDRRADV---SCGVILYVLLIC---ALPDDDDN---LROLLEKVKRG---VFHHPHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
39970687.y ---GPRTHMETS---CGSPYVAPSEVILAGN---KMRGERSDDI---SMGIVLFAAMAA---RLPDDDED---MNFAPARAKA---IYHMPFHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
32422025.y ---EPHTHKTETS---CGSPYVAPSEVILAGN---QPYKGSVDI---AMGIVLFAAMAA---RLPDDDED---MNFAPARAKA---IYHMPFHFVSDCCALIRRCOAP---NPKRIT---EABTNKHPW  
19114786.y ---NDSQENY---CGSLYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---AYDLPSSTSAAGDILLRMDV---NPKRIT---EABTNKHPW  
6322748.y ---PNKLETS---CGSPYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---AYDLPSSTSAAGDILLRMDV---NPKRIT---EABTNKHPW  
10383767.y ---DADLETETS---CGSPYVAPSEVILAGN---LPEYGFASDV---SCGVILYVLLIC---RLPDEEDN---GNVRDPLIKVQK---KYQMPSSSEARADLIRKIVT---DPRKRT---TRDILKHPIL  
6320715.y ---DADLETETS---CGSPYVAPSEVILAGN---LPEYGFASDV---SCGVILYVLLIC---RLPDEEDN---GNVRDPLIKVQK---KYQMPSSSEARADLIRKIVT---DPRKRT---TRDILKHPIL  
19114219.y ---PKLLETETS---CGSPYVAPSEVILAGN---RSYDCASDI---SCGVILYVLLIC---KLPDDDDN---IRSHLLYVQCG---QFEMPSDDETSRDAQDILKIVT---DPRKRT---TRDILKHPIL  
23509738.z ---KNCLLETETS---CGSPYVAPSEVILAGN---QKYEALTDV---SLGILLYVLLIC---LNLHRLPENNDD---MNLFTQILK---QFEMPSDDETSRDAQDILKIVT---DPRKRT---TRDILKHPIL  
19173473.y ---SSSVRDY---CGTPOCAPSEVILAGN---IPYTCSEVDI---CLGVILYVLLIC---KLPDEEDN---TKLSSRHAIYS---ILYFQPYVSKNAKGLLRMDV---NPKRIT---MNTKHPW  
19173056.y ---NKTLNLETETS---CGSLYVAPSEVILAGN---QRYCGSEDDV---SLGVVLYVLLIC---CVPEDDDED---VQGLQAKTMDA---KMRIDESSSEARADLIRKIVT---DPRKRT---MNTKHPW  
19113449.y ---KDDLERTY---CGSLYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---DFKFCCKITSEARADLIRKIVT---DPRKRT---MNTKHPW  
6323125.y ---YRKQLETETS---CGSLYVAPSEVILAGN---QPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---DFKFCCKITSEARADLIRKIVT---DPRKRT---MNTKHPW  
6320327.y ---SRKQLETETS---CGSLYVAPSEVILAGN---NRYTCSEVDV---SPGVLLYVLLIC---KVPEDDEN---SSVLEKIKQG---KVDYPSHLSLEVISLKRMDV---DLKRAT---LKNVSHPM  
39951117.y ---FKSHKETS---CGSLYVAPSEVILAGN---RBYTCSEVDV---SPGVLLYVLLIC---KVPEDDEN---MSALHAKIKQG---KVDYPSHLSLEVISLKRMDV---DLKRAT---LKNVSHPM  
32407000.y ---EDRKLETETS---CGSLYVAPSEVILAGN---RBYTCSEVDV---SPGVLLYVLLIC---KVPEDDEN---MSALHAKIKQG---KVDYPSHLSLEVISLKRMDV---DLKRAT---LKNVSHPM  
19112898.y ---RQSRLETETS---CGSLYVAPSEVILAGN---QRYTCSEVDV---SPGVLLYVLLIC---KVPEDDEN---MSALHAKIKQG---KVDYPSHLSLEVISLKRMDV---DLKRAT---LKNVSHPM  
17542804.y ---RDKHNDTETS---CGSPYVAPSEVILAGN---LQKCNBADV---SMGILLYVLLIC---ALPDDDDN---MQMYRKTQSG---VVDYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
34867929.m ---KDYHLETETS---CGSLYVAPSEVILAGN---KSYLGEADV---SMGILLYVLLIC---FLPDDDDN---VMALYKIMRG---ADYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
31981626.m ---KDYHLETETS---CGSLYVAPSEVILAGN---KSYLGEADV---SMGILLYVLLIC---FLPDDDDN---VMALYKIMRG---ADYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
MELK.h ---GYSDFPSTETS---CGSPYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---ADYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
7657216.m ---GYSDFPSTETS---CGSPYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---ADYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
HUNK.h ---GYSDFPSTETS---CGSPYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---ADYPSHLSSEARADLIRKIVT---DPRKRT---MNTKHPW  
39950250.y angSRKGDLETETS---CGSPYVAPSEVILAGN---DSLYTKRKVDV---SCGVILYVLLIC---YLPDDDDP---GDNINLYKYHVT---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
32409227.y dagwRkqgDLETETS---CGSPYVAPSEVILAGN---DSLYTKRKVDV---SCGVILYVLLIC---YLPDDDDP---GDNINLYKYHVT---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
6324807.m ---EDNLEKETS---CGSPYVAPSEVILAGN---TKAMEARKADV---SCGVILYVLLIC---YLPDDDDP---GDNINLYKYHVT---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
6325116.y ---SRNLEKETS---CGSPYVAPSEVILAGN---ABPYEARKADV---SCGVILYVLLIC---YLPDDDDP---GDNINLYKYHVT---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
32421155.y ---GSAKYLETETS---CGTICVYVAPSEVILAGN---EKYACSEVDV---SLGVILYVLLIC---ELPDDDDP---EQVTRRKLIGE---YKYITQTPLKFPPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
6325107.y ---TKTLETETS---CGTICVYVAPSEVILAGN---RKYDEKVDI---SLGVILYVLLIC---YLPDDDDP---EARTKWKIVNE---YNYINSTPLKFPPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
19115733.y ---CSRRFTNTRCCTVAVYVAPSEVILAGN---HKYTCSEVDI---SLGILLYVLLIC---RLPDEEDN---VSLTEQKLINE---EPYDDELBDALSLKILSK---RDLIRFS---LQVSHHPW  
19173022.y ---GRRRRRSRPSLEIMAPSEVILAGN---ANDRELADV---SCGVILYVLLIC---ALPDDDDP---ESDERFSFVVS---EPKVDKAVHEDDARDLISLAK---NPKRIT---LQVSHHPW  
39977751.y ---DDEKLETETS---CGSDYVAPSEVILAGN---QPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---AMNPLTQSLGAVNTRSLIEP---DVKRFN---LQVSHHPW  
32405740.y ---DDEKLETETS---CGSDYVAPSEVILAGN---QPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---AMNPLTQSLGAVNTRSLIEP---DVKRFN---LQVSHHPW  
6322733.y ---ENNEMCTARCSSEVYVAPSEVILAGN---PQCHLSDI---ALGVILYVLLIC---FLPDDDDP---FNASARQSR---EMNPLTQSLGAVNTRSLIEP---DVKRFN---LQVSHHPW  
34147073.m ---GLKNSLLSTFCQSVFI---RP---R---SRGCGVPLSSIGDQAMGLVMTA---DVKRFN---LQVSHHPW  
34867008.m ---GLKNSLLSTFCQSVFI---RP---R---SRGCGVPLSSIGDQAMGLVMTA---DVKRFN---LQVSHHPW  
17506775.w ---ERRERSRSCQTYVCPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
31211759.i ---RVADAVLSEKETS---CGSPYVAPSEVILAGN---KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---PLTFPEYVTPHARDLIRKIVT---DPRKRT---MNTKHPW  
24582158.f ---RTSDNQVILSKETS---CGSPYVAPSEVILAGN---ADPFMSDI---ACGVVQAMVFC---RLPDDGDN---VHLLKRNQ---enpniYPEGYSRQKGLVSSLDG---NEMSRAG---YDCQNSEM  
-----KPYRCAADV---SCGVILYVLLIC---KLPFGGQN---TDVIYVNRHG---LVFFKSPASSECCMLMHTAP---VKIRRN---LQVSHHPW





AK102350.g --- EDDDDLRRSPTPTVFAPECCQGS --- aYH GRADITAVGVNLYCMITC HYPFHGDT LQETVYKIVN --- DFWQIPDNNQLADLLELLCK DPAARIT --- LQAVSEHPV  
30692568.p --- KDDDDLRRSPTPTVFAPECCCLGI --- tYS GRSADTAVGVNLYCMITC QYFELGDT LQDTYKIVH --- NPLIIPDNNFLRDLLEGLCK DPNQRT --- LKAVASHPV  
22327987.p --- KDDDDLRRSPTPTVFAPECCCLVSG --- ITYSRAADTAVGVNLYCMITC QYFELADTL QDTYKIVNN --- PLIIPDGNFLRDLLEGLCK DPSQRT --- LKAVASHPV  
39977037.y --- EKINEMQAKSAGSPAFIPPELCAVh --- gnVSGAADT SMGASLYCMRYG RLPDRST PLEIYEAIT --- EPKLPADENDFVLLSRIMCK DPQRTIR --- MBEIRBHPV  
32411103.y --- QKTDMEKAKFAGSPAFIPPELCAK --- gdvSRAADT SMGVLYCYRYG KLPSAHDN QLEMWEAKTK --- BEQFPFPEKEPFLLDMLEKIK EPDAKRT --- MBEIRBHPV  
17566086.w --- NLFORDGRCIKVGTKPKFOPPECLYgh --- dEdDCKADM SAGVLYNLVSG KYPEKPV LLLKLYECLGTE --- PLQMPNVOLT KDQLDLLEKLEK DFNRET --- CLFIMHPV  
7106425.m --- HFFAVDDTCTRTQSSPAFOPPEIANG --- dtfSGRKVDI SAGVLYNLVTC LYPEEGDN IYKTFENLGRG --- DFTIFCDGCPPLSDLLRGMLEY EPAKRES --- TROIROHSF  
27717549.m --- HFFAVDDTCTRTQSSPAFOPPEIANG --- dtfSGRKVDI SAGVLYNLVTC LYPEEGDN IYKTFENLGRG --- DFTIFCDGCPPLSDLLRGMLEY EPAKRES --- TROIROHSF  
LKB1.h --- HFFAADTCTRTQSSPAFOPPEIANG --- etfAeGRKVDI SAGVLYNLVTC QYPEEGDN IYRLEENLGRG --- SYAIFCDGCPPLSDLLKGMLEY EPAPKRS --- TROIROHSF  
24646646.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646644.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646652.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646650.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646648.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646654.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
21358043.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
24646641.f --- DLFAPDDTCTTQSSPAFOPPEIANGh --- etfAeGRKVDI SSGVLYNLVTC QYPEEGDN IYRLEENLGRG --- QWEAPAWLYEMDADFANLILGMLQA DPKRSL --- LQETRIDTF  
31207763.i --- DTFAPDDECTTQSSPAFOPPEIANGh --- EVfSGRKVDI SSGVLYNLVTC QYFADATS --- PVLVFPKPKGD WNRCS --- tvlPVMIAHBS  
6322803.y --- nEDCFQREnkNkIVGTAFAPPELCHLgnsk --- rdfvDGRKVDI SSGVLYNLVTC ELPEFGEN EFETVYKITE --- VLSSSKINGNPLDNLKRLK DVLITIS --- LODIVKLSR  
6321259.y --- IQSSHEQLLSKALVGTAFAPPELCSkEte --- eysCSAADI SSGVLYNLVTC KLIPENANS GLELFDLSHN --- KPLEFPsyemlngaTSGITVEMDADKDLKRLCK DPDKRTK --- PADIKVHPM  
6320976.y --- sSESLEDELERAKIVGTAFAPPELCHLgdefaenlfgrscISFMIDI AVGVLYCLLFC MLPEFSDF ELKLFKIVN --- DPLKFPtFkeIqsnkvSKVSCHEEYEMKDLKRLK NPKQRTM --- LPAIKKHPV  
39978237.y --- ALNFDDDRSKIVGTAFAPPELCLYrdldk --- eppkVSEKIDV SSGVLYNLVTC RLPPLAD EFAMFKIAT --- EDVYIIRQrlrvptvftdpkvsfgkrvniepyrddeDAAYEK DDDLYDLRSMVR NPEKTRR --- LQAVKHPV  
32404336.y --- ARDFNDLEAKIVGTAFAPPELCLYrdtydd pggqpkI TRQIDV SSGVLYNLVTC RLPPLAD EWMFKIAT --- EDYIIRQrlrvpdvstpkdkslytrvrndpyrndeDEYLEEDVLEKMLTK NPEKTRR --- LQAVKHPV  
19075860.y --- GLNEDNDVEAKIVGTAFAPPELCLYrdldr --- prpki SEADIV ALGVLYCLLFC RCPNASM EYELFDKIVN --- ERINIPSPFDSEEGDLKRLCK DPEKRT --- LQAVKHPV  
31237988.i --- INEQEBCFDQRSPAYTSPDVLG --- KfYRCKPSDM ALGVLYNLVTC KFPPLDTP SALFRKREA --- DYSIPSGFNITYERKSLIKRMLTL SPDBRL --- ATE --- V  
34013526.m --- VSEGDLDKDRQSPAYTSPDVLG --- RfYRCKPSDM ALGVLYNLVTC QFPYDSIP QELFRKIAA --- EYTIIPedGRVRSNTVCLIRKLVVL DPOQLA --- AADVLEALS  
SgK495.h --- VSEGDLDKDRQSPAYTSPDVLGR --- pYRCKPSDM ALGVLYNLVTC QFPYDSI POELFRKIAA --- EYTIIPedGRVRSNTVCLIRKLVVL DPOQLA --- AADVLEALS  
31235112.i --- DDPAEDLDKDRQSPAYTSPDVLGR --- TTYSCAADV SSGVLYNLVTC RYPSNDSH ASLFAKISRG --- QFTVPECLSKAROMIRALRR SEDVLEHPV  
17864238.f --- DGEDDTSDKICCLYFAPELCLCPq --- qtKCKPADM SSGVLYNLVTC RYPSYKA NCNLITVHRH --- GNVQIPLELKSVMRMLSLRCK DYTRMT --- ASHFLTPV  
28274688.m --- TQSDDSWDKHACPAVYVPEILSSR --- pSYSCAADV SSGVLYNLVTC RYPSHSE PVLLFKIRXG --- TFALPEGLSAPARQLIRLGRK EPSERLV --- ALGILHPV  
21362365.m --- TQSDDSWDKHACPAVYVPEILSSR --- pSYSCAADV SSGVLYNLVTC RYPSHSE PVLLFKIRRG --- TFALPEGLSAPARQLIRLGRK EPSERLV --- ALGILHPV  
21426781.m --- TQPDSDWDKHACPAVYVPEILSSR --- pSYSCAADV SSGVLYNLVTC RYPSHSDP ALLFGKIRRG --- TFALPEGLSAPARQLIRLGRK EPSERLV --- ALGILHPV  
Trb3.h --- TQPDSDWDKHACPAVYVPEILSSR --- asYSCAADV SSGVLYNLVTC RYPSHSDP PVLLFKIRRG --- AYALPEGLSAPARQLIRLGRK EPABRLT --- ATGILHPV  
34863190.m --- RQDDDSWDKHCAPAVYVPEILNTn --- gsYSCAADV SSGVLYNLVTC RYPSHDIE PSSDFSKIRRG --- QFNIPEDLSKAKOLRSLIRR EPSEBLT --- SQEILDHPV  
30315656.m --- RQDDDSWDKHCAPAVYVPEILNTn --- gsYSCAADV SSGVLYNLVTC RYPSHDIE PSSDFSKIRRG --- QFNIPEDLSKAKOLRSLIRR EPSEBLT --- SQEILDHPV  
31542100.m --- RQDDDSWDKHCAPAVYVPEILNTS --- gsYSCAADV SSGVLYNLVTC RYPSHDIE PSSDFSKIRRG --- QFNIPEDLSKAKOLRSLIRR EPSEBLT --- SQEILDHPV  
Trb2.h --- RQDDDSWDKHCAPAVYVPEILNTS --- gsYSCAADV SSGVLYNLVTC RYPSHDIE PSSDFSKIRRG --- QFNIPEDLSKAKOLRSLIRR EPSEBLT --- SQEILDHPV  
34866527.m --- KGEDDASDKHCAPAVYVPEILNTT --- gTYSKAADV SSGVLYNLVTC RYPSHSDP SADFSKIRRG --- QCIPPEVYSKAKOLRSLIRR EPSEBLT --- APELLHPV  
Trb1.h --- KGEDDASDKHCAPAVYVPEILNTT --- gTYSKAADV SSGVLYNLVTC RYPSHSDP SADFSKIRRG --- QCIPPEVYSKAKOLRSLIRR EPSEBLT --- APELLHPV  
24649331.f --- GSKLIVRCTPTVYAPPEMIAMS --- gYDYGVDS SSGVLYNLVTC KMPASACKN SKELIYAMSG --- GPTYPKDMBSVSPATOLIDLIVS DPSYRVP --- TABLDKFOFL  
17538163.w --- GRGTCTTCTVGTAFAPVQVYDQ --- eYDQSDVYSLGAVLYNLVTC TARNFP PK --- GLPPTCGMSNAARVEMQD DAKKRT --- LQAVLSBPM  
21358073.f --- KRPRERHMVCTPTNYIAPPEVSRt --- sHGLPADV SSGVLYNLVTC RPEETDA VQSTLNKIVM --- SEYIMPAHLSRAQDLINLKLK LPHRIT --- LRAVLCHPM  
34856879.m --- KMPHEKHYTLCTPTNYIAPPEIATRS --- aHGLPESDI SSGVLYNLVTC RPEETDT VKNTLNKVLA --- DYEMPAHLSRAQDLIHQLRR NPADRL --- LSSVLDHPM  
27501466.m --- NMPHEKHYTLCTPTNYIAPPEIATRS --- aHGLPESDI SSGVLYNLVTC RPEETDT VKNTLNKVLA --- DYEMPAHLSRAQDLIHQLRR NPADRL --- LSSVLDHPM  
27501454.m --- NMPHEKHYTLCTPTNYIAPPEIATRS --- aHGLPESDV SSGVLYNLVTC RPEETDT VKNTLNKVLA --- DYEMPAHLSRAQDLIHQLRR NPADRL --- LSSVLDHPM  
PLK4.h --- KMPHEKHYTLCTPTNYIAPPEIATRS --- sHGLPESDI SSGVLYNLVTC VPEPKKN VEDTYKMKL --- NNYIFPENCDLSEATDILGILNT NPLERET --- LEBHLSKGL  
19075073.y --- KDGEKVVTCPTNYIAPPEVLRka --- KGHSPESDV SSGVLYNLVTC KFPESSTCL KETYRKKNN --- EYSIFKHNSVAASLQKMLDT DPAARIT --- LEBHLSKGL  
25742783.m --- EYERKKTCTPTNYIAPPEVLSK --- gHGHABEVDI AIGGILYVLLFC SPPESRR VQETVYRKNN --- DVVVENASPTANRILRSLDDP VDRRET --- AEAVALDQRF  
17541716.w --- EKNEKMMRGCTPTNYIAPPEVNET --- gHGLCESDI ALGVLYNLVTC RPEETIN LKETYRCREA --- RYIMPSLAPAKHLIASMSK NPDRFS --- LDDTLRHFDF  
22779889.m --- EPLEHRRRTCTPTNYIAPPEVNLKq --- gHGLCESDI ALGVLYNLVTC RPEETIN LKETYRCREA --- RYIMPSLAPAKHLIASMSK NPDRFS --- LDDTLRHFDF  
13929172.m --- EPLEHRRRTCTPTNYIAPPEVNLKq --- gHGLCESDI ALGVLYNLVTC RPEETIN LKETYRCREA --- RYIMPSLAPAKHLIASMSK NPDRFS --- LDDTLRHFDF  
34862304.m --- GPAGRCIRVLCSTENFAPEVYVSRn --- gHGLSASDI ALGVLYNLVTC TPFAAAP LSRMIAIRDG --- HYLEPTOLSPSARSLIARLAP DDPDRFS --- LDELLDQDF  
34870279.m --- EPPEQRKKTCTPTNYIAPPEVLRq --- gHGLPESDV SSGVLYNLVTC SPPRETAD LKETYRCQKV --- HYTLPASLSPAROLLAALIRA SPRDRFS --- TEQILRHFDF  
23956070.m --- EPPEQRKKTCTPTNYIAPPEVLRq --- gHGLPESDV SSGVLYNLVTC SPPRETAD LKETYRCQKV --- HYTLPASLSPAROLLAALIRA SPRDRFS --- TEQILRHFDF  
PLK3.h --- EPPEQRKKTCTPTNYIAPPEVLRq --- gHGLPESDV SSGVLYNLVTC SPPRETAD LKETYRCQKV --- HYTLPASLSPAROLLAALIRA SPRDRFS --- TEQILRHFDF  
39965586.y --- TQDMQITRRITCTPTNYIAPPEIKgr --- kgHDMVDI SSGVLYNLVTC KFPESST V --- LISKARKDLVATME DADRFD --- PDSIVQHPF  
32422413.y --- TQDMQITRRITCTPTNYIAPPEIKgr --- kgHDMVDI SSGVLYNLVTC KFPESST TDEHYRARE --- RYEWpsPDATQSLVLEAKDLVMSAQ DADRFD --- PDSIVQHPF  
6323643.y --- ANSEKRYTLCTPTNYIAPPEIMgkh --- sghSPESDI SSGVLYNLVTC KFPESRD VNIHYERKC --- RDFSFRDKFISDEBKILRILSL DPTBRS --- LDEIMYVWF  
19114559.y --- MDEERKMYTLCTPTNYIAPPEILFNsk --- eghSPESDI SSGVLYNLVTC KFPESDKE VKIHYRKA --- NYSFPRNLSRBAKDLISLITH DPTBRS --- LDDIVDHPF  
48830012.q --- APFYEGFVTLRYNTPELACK --- gYCRDLYALGVLYNLVTC ELPEFGET POELIIVHLT --- LRWFMEEALSPVLEFACLH DRRFR --- VEALVRRR  
32476406.f --- SASHRSGHTSITCFHMAPPEIRg --- gYCRDLYALGVLYNLVTC ELPEFGET POELIIVHLT --- DSPDLRSVQYRNLHRECK DPKRER --- DVAEMLST  
32475108.b --- AQTqteitqgPESITCFHMAPPEIRge --- pLDRSdyYALGVLYNLVTC KVPFAADN MVOLARVLD --- NaapsLRDSGLEAHTLDRVIAKQCK APGRFA --- SYDERTALL  
32471645.b --- DQNTALLTGDDILCTPAYMSPEQIGgr --- tdlDRSdyYALGVLYNLVTC QRPQGNR DOHLANVAN --- GSLATPRNVRSDPRPELVAITKQMSK SDDARYS --- AABFAODLR  
32476111.b --- GAKMDLIRTGMLVCTPAYMSPEQAGgr --- gdlGASDYSVLSGVLYNLVTC RAEVAES PMELVMLVTE --- QDTTPRALRPSLDRPELHMTKROCK PADRYP --- TABATANDIE  
32476735.b --- SDTNLIRTGDMETGLRASPQASGN --- RMLLDHRDYSVLSGVLYNLVTC RAEVEGF RBLNAVIEV --- EPSPMSIAPPELDTLVKRAK QPSBYA --- TMAJALDQ  
21221541.q --- DADTIRLHTGTGIGSPAYMAPQAMG --- aVGPYDLYALGVLYNLVTC DVPAGST ALGVLHRH --- LYEPELVRRIRPEVLEAVYVILAK DPORED --- SAQEVYHLLA  
29831162.b --- ESREPRRLTATAGILSTPQIAPPEARGE --- pPTPAADLSELCALVAVGEC RFPED RH --- GEYATLtalgeEPTPPVRAELGAVLGLLCK DVVRL --- APEAVRGL  
29827516.b --- ESTTLTATGSIITPDMYAPPEVrd --- rGCPADDL SLMMLYAVGEC HHPRLRGT --- LATLAAVHH --- DDVPHFKASPLVHLVILVVR DPAARD --- ABAFRMLA  
29831551.b --- CATTLTSEGSFVGSPEYIAPPEVRSgv --- rTGPESDL SGLALCTVLSG ESPERRDS LGGILHAVV --- DDIRPPACBPIPVVRLGR DPKRDD --- AEAARL  
21223157.b --- GATTLTSEGSFVGSPEYIAPPEVRSga --- gTGPESDL SGLVLLCAVLSG ASPERRDS LGGILHAVV --- EETRPPACBPIPVVRLGR DPKRDD --- AASQRLRA  
29831553.b --- CANTLIDTGGFVGSPEYIAPPEVRLq --- rPGPESDL SGLVLYAAAG VSPERRSN TPATLQSVLN --- ATPAAPAAKQTLAQVNLGNK DPARFN --- AAEVRLR  
21223158.b --- GETSLIDTGGFVGSPEYIAPPEVRLq --- rPGPESDL SGLVLYAAAG VSPERRSN TPATLQSVLN --- ATPAAPAAKQTLAQVNLGNK DPARFN --- AAEVRLR  
29831550.b --- GDTTIRLGEIVSVDYIAPPEVQRgh --- dPGPESDL ALGAILYAVGEC KSPERRTS PLSTMOAVG --- EEPGAPQYAGALAVITALRCK SDEABOML --- SDEABOML  
21223156.b --- GDSITIRGEVVSVDYIAPPEVQRgh --- dPGPESDL ALGAILYAVGEC RSPERRTS PLSTMOAVG --- EATEPRVAGALAVITALRCK DPARFN --- ATEABHLLA  
29831548.b --- GDSITISGMLVAPSYSIAPPEVRRgh --- kPGPESDL SGLGLYAVGEC VFPYDKGS AIATLAVMT --- EELPEFKnaGPLRVIVYGLAK DPEQR --- DDAAGARAM  
21223154.b --- GDSITISGMLVAPSYSIAPPEVRRgh --- kPGPESDL SGLGLYAVGEC TPYDRGS AIATLAVMT --- ENLEPKnaGPLRVIVYGLAK DPKR --- DDAAGARAM  
29831967.b --- DAKALITMGLVAPSYSIAPPEVRSgv --- rPQGPESDV SGLALCAALGEC HSPERRST TLATLHAVLY --- EEPLEPTVAGKRLIALLK EPSEYRG --- LEEVAAL  
29348178.b --- NRSVEKDDMMVCTPTVMSPEVVRg --- nRLDRSdyYALGVLYNLVTC NAPDITTL tEYDINKVVE --- EPLPRMrtYKQKQKIVKRAK EPQBYQ --- TCDDFKKAL  
29830914.y --- QSGVTSMTQGMVCTPQYLSPEQALgr --- gV DARSdyYALGVLYNLVTC RLPESADS PLATYAHVQ --- EEPVAPSSVNRSLPPAVDALVARAK NPNRFP --- SAETMDECL  
21222231.b --- QSGVTSMTQGMVCTPQYLSPEQALgr --- gV DARSdyYALGVLYNLVTC RLPESADS PLATYAHVQ --- EEPVAPSSVNRSLPPAVDALVARAK NPNRFP --- SAETMDECL  
16078640.b --- SSSITITHNSVLGSVHYIAPPEVARG --- gLA TRKSDIYALGVLYNLVTC RLPESADS AVSHALQHLQ --- AETPSAKRWNPSVQSPENLTKAK DPEBRV --- TABDM  
15615067.b --- SSSATITHNSVMSVHYIAPPEVARGg --- lv TRKSDIYALGVLYNLVTC QLPESGDT AVSHALQHLQ --- NDIPSKEIQLPESLPE AKDEBY --- LRVYKAT  
34898088.p --- PSKASHASTYVLTIGYIAPPEVARTS --- RL NEXSDVYSFIVYLELITC K KAVDNE SNEHQLHSK --- ADDNtVMEAVDSESVTCTDMGVRKAFQALLCKR HPSDRF --- MEHVARVLLS  
29827180.b --- EATIAKHTLKLATLAVMAPPEVRRNq --- rAASADYIAPGVVYVLELLE TPPEITGPY EHDYHDLHLH --- GFRP --- SQQLRS

16331146.b -AKTGNPFSKGYTSSPAMPAPEPFGY -kf SVASDITVAVGILLYELVIG -DRPFSGF ---PKALQAALHN -VRLPLPPEPPLLAFTVQALFK -LPQRFPF -NATAVASDLA  
17232441.b -TIDQIGSMNAKTEGVAPEEYERZ -grf DAYVDVYALAAATLNLTLT -KVP -LFPVNERK -AGIPLppPKQFNSSQSRVNDILKSMEL -EPQBRCPPT -VLEFRKNLG  
33944325.z -DQLGGVAKMACSSPDMYAPLCEBE -ay DKAADD SLGCVLYELMCL -KRPNSTST -APLIMKMSR -GEYQLITFDDBGYSALPLDVKSFLOK -SAVTRPT -PERRADRSSV  
31198507.i -HEDDLNRITVTPDYMAPLVEARG -KDY DYKSDV ALGCTIYELCML -EHPFVDRF -GKRRNOKF -SVPLQDLCKRLGYSSALQVLCMDMLQK -DLTKRMT -LESLLKFFRI  
32564595.w -GPEYKSAAGTILLYECPETVONL -pf GSKADI SFGCCYEMCCL -QFVHSTIN -MLTAMQVIEA -KYDELNEWMSDDRLRELTSCAP -DEBAPF -DILLVSGM  
34869394.m -DQCALQVD -N -QPSRAVGVTHVCAH -RYPYTSFN -DGKOYR -E -FTLITENTNS  
NEK10.h -QENSKLHSVGTILLYELCEPVLKSE -pf GSKADV AVGCILYEMATL -SEPPYSTN -MLTAMQVIEA -VYEPVpEGLYSEKVIDHSEKQFP -DABAPF -DIVEVSSM  
31199875.i -NSNVHAQTVLGTEVYSPMCEG -KEV DRKSDV ALGCTIYELCML -KKAPASNL -FRFVQKMTA -EYVFLPVCYSQSLRSHLMQIPI -EPITRPS -ASELLQYIT  
24649791.f -NRTIKHAQTVLTFPVMSPMCECK -ey DRKSDI ALGCTIYELCML -KKTPAASN -LSEVHTKMAQ -NYTFVPSQSTGLRSHMSNLQV -EAPRPT -ASEVLLVIT  
17509911.w -GTEFLAQGAKTVVSTPYTSPMCSGV -sv NERSDM ALGCTIYELCML -KKAPBGN -LPLAVNSLMTIC -AYTFVKGPSYAEKMWIRELQ -DPQRPS -APQADKMLR  
NEK9.h -NSEYSMAETIVTPVMSPMLCQGV -ky NRKSDI AVGVVIFELTL -KRSTDATN -PLNCVKKVQG -IRAMEVDSOYSLELQVHSHCDQ -DPQRPT -ADBLDRPLP  
21553095.m -NSEYSMAETIVTPVMSPMLCQGV -ky NRKSDI AVGVVIFELTL -KRSTDATN -PLNCVKKVQG -IRAMEVDSOYSLELQVHSHCDQ -DPQRPT -ADBLDRPLP  
34867428.m -NSEYSMAETIVTPVMSPMLCQGV -ky NRKSDI AVGVVIFELTL -KRSTDATN -PLNCVKKVQG -IRAMEVDSOYSLELQVHSHCDQ -DPQRPT -ADBLDRPLP  
17511015.w -GTKSAASTVLTSTPYMSPMLCES -pf NRKSDM SLGCVLYELMCL -ERASDGEN -LPLAVNKITRS -KQNFGLDHVSDVDMVLEHFKT -HTDKRED -VSOLESDELV  
23508968.z -GIESMAHSCVSTPYMSPMLHGT -ksy DRKSDM ALGCTIYELCML -KTPFKAN -NFAOILSEKR -GPELPLGKSKELNLLKLNLL -SAKBRP -ALQGLYQIT  
399711119.y -QSDFASTVTPFPMSPICAAE -ky TLKSDI SLOGCIYELCTR -EPPNAKT -HYQVLCRRE -GKISIPFKHYSDELVEIKECRV -NPERPD -TATLHLPLV  
32420359.y -QSHDFASTVTPFPMSPICAAE -ky TLKSDI SLOGCIYELCAR -EPPNAKT -HYQVLCRKE -GKIAPLPSVYSSELFAIKDCRV -NPERPD -TATLHLPLV  
6919327.y -ETSIQFATVTPFPMSPMLMDQ -pf SPLSDI SLOGVIFEMCSL -HPPFOAKN -YLBQTKKCN -GKCDIPEYYSRGLNATHSMQV -NLRTRPS -TFELLQDIQI  
13114217.y -DNTRVFTQSVVTPFPMSPILRSE -pf SAKSDV ALGVVIFETCML -THPEGRS -YLBQTRKCC -GNLSCWDHHYSDDVLELIRHCDV -TYQLRSPHL  
18858209.f -RRDQSAASVTPFPMSPMLVGR -ky DRKSDV AVGVVIFEMCAL -RPEGRRA -FDQLSEKTAQG -EFSRIPATYSDDLQELIARMLAV -DHEBQFG -TEVILRHPV  
34881423.m -NHDTSFAKTEVSTPYMSPMLSR -sv NRKSDI SLGCVLYELCAL -MPPYAFN -QKBLACKIREG -RFRRIYRYSQGLNLIIRMLN -KDYHRS -VBEILSSPL  
34860508.m -NHDTSFAKTEVSTPYMSPMLSR -sv NRKSDI SLGCVLYELCAL -MPPYAFN -QKBLACKIREG -RFRRIYRYSQGLNLIIRMLN -KDYHRS -VBEILSSPL  
6754818.m -NHDTSFAKTEVSTPYMSPMLSR -sv NRKSDI SLGCVLYELCAL -MPPYAFN -QKBLACKIREG -RFRRIYRYSQGLNLIIRMLN -KDYHRS -VBEILSSPL  
NEK2.h -NHDTSFAKTEVSTPYMSPMLSR -sv NRKSDI SLGCVLYELCAL -MPPYAFN -QKBLACKIREG -RFRRIYRYSQGLNLIIRMLN -KDYHRS -VBEILSSPL  
23613280.z -EQTEQNTLCTTIGYMAPLCKNI -nr SFPADI SLGILLYELSL -KPFKSNNS -NMLSVACKICE -DEPDLPRYDPSKDLNLCYWMKK -DWKDRPT -IYDITSTYI  
83515730.q -MEDLASITVTPNYMSPICBILAS -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -SSISPMPIYSSSLiyakhdalfgrKIVKSMRK -NPERPT -AGBLRHPV  
15230429.p -NPEKPYSMVSTISNSCPLEVEDQ -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -SILMSPLPIYSSSTIKOMIKMLRK -KPEYPT -ACBLRNPPL  
15232389.p -GKDDLASMVSTPYMSPILRSE -pf GSKDDI SLGCCYEMAAH -RPAKKAAD -MAGLINKNR -SSLSPLPVMYSSSLIKSMRK -KPEYPT -AAELRHPV  
15229902.p -KADDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAAH -RPAKKAAD -MAGLINKNR -HOGNVKBEFVA -KRM -ASEILLKHPV  
AK073901.q -KEDDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAAH -RPAKKAAD -MAGLINKNR -SSIGLPCYSSSMKSLIKSMRK -SPEHPT -ASEILLKHPV  
28270027.q -KADDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAAH -RPAKKAAD -MAGLINKNR -SSIGLPPCYSSSMKSLIKSMRK -SPEHPT -ASEILLKHPV  
AK073903.q -TSDDLASSVSTPYMSPICBILAS -pf GSKDDI SLOGCIYEMAL -RPAKKAAD -MAGLINKNR -SIVSPLPTRYSGARRSLIKSMRK -SPEHRS -AAELRHPV  
AK072382.q -TSDDLASSVSTPYMSPICBILAS -pf GSKDDI SLOGCIYEMAL -RPAKKAAD -MAGLINKNR -SIVSPLPTKYSGARRSLIKSMRK -SPEHRS -AAELRHPV  
AK067073.q -TSDDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -SVLAPLPTIYSGARRSLIKSMRK -SPEHRS -AAELRHPV  
15221843.p -TSDDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -TIVSPLPAKYSGARRSLIKSMRK -NPERPS -ASDLRHPV  
15241745.p -TSDDLASSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -IVAPLPAIYSGARRSLIKSMRK -NPERPS -ASDLRHPV  
15229361.p -TSDDLASSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAL -RPAKKAAD -MAGLINKNR -SIVPPLPAIYSGARRSLIKSMRK -NPERPS -AAELRHPV  
22331918.p -TSDDLTSVSTPYMSPICBILAS -pf GSKDDI SLGCCYEMAAH -RPAKKAAD -MAGLINKNR -LIMDIPAMYSSSPLIKSMRK -NPERPS -ANELLRHPV  
34876962.m -ENHGDMASTLITPYMSPILFSNK -pf NYKSDV ALGCVYEMATL -KHAENAKD -MNSLVVRHIEG -KGEKclscqekpvDIGPLKSGHTKQDNR -T -AESCAVSR  
6754822.m -ENHGDMASTLITPYMSPILFSNK -pf NYKSDV ALGCVYEMATL -KHAENAKD -MNSLVVRHIEG -KLPMPKVYSTELAEIRIMSR -RPERPS -VRSILRQPV  
NEK4.h -ENHGDMASTLITPYMSPILFSNK -pf NYKSDV ALGCVYEMATL -KHAENAKD -MNSLVVRHIEG -KLPAMPRDYSPELAELIRIMSR -RPERPS -VRSILRQPV  
34865856.m -MGSCELATLITPYMSPILKHKQ -gv DAKSDI SLACILYEMCCL -DHASGSNF -LSVVLNIVEG -NTPSLDRYPRELNTIMSRMKN -SPLRPS -AAELKAPV  
27369621.m -MGSCELATLITPYMSPILKHKQ -gv DAKSDI SLACILYEMCCL -DHASGSNF -FLSVVLNIVEG -KTPSLDRYPRELNTIMSRMKN -SPLRPS -AADILKAPV  
NEK11.h -MGSCELATLITPYMSPILKHKQ -gv DAKSDI SLACILYEMCCL -DHASGSNF -FLSVVLNIVEG -DTPSLDRYPRELNTIMSRMKN -SPLRPS -AIELKIPV  
34879220.m -SSPMAFACTVSTPYMSPILWENI -pf NNKSDI SLOGCIYELCAL -KHPFOANS -WKNLILKICQ -PIHPLPALYSKLCQVYKQMKR -NPERPS -ATLRCRGL  
6754820.m -SSPMAFACTVSTPYMSPILWENI -pf NNKSDI SLOGCIYELCAL -KHPFOANS -WKNLILKICQ -PIHPLPALYSKLCQVYKQMKR -KPSHRS -ATLRCRGL  
NEK3.h -SSPMAFACTVSTPYMSPILWENI -pf NNKSDI SLOGCIYELCAL -KHPFOANS -WKNLILKICQ -CISPLPSHYSYELQVYKQMKR -NPERPS -ATLRCRGL  
31559852.m -NDSMELACTICATPYMSPICQNT -pf NNKSDI SLOGCIYELCAL -KHPFOANS -FHHVLKICQ -RVAPISPHFSRDLQSLIQLFRV -SPODRS -VTSILKRPFL  
NEK5.h -NNSMELARTICATPYMSPICQNT -pf NNKSDI SLOGCIYELCAL -KHPFOANS -LQQLVVKICQA -HFAPISPHFSRDLQSLIQLFRV -SPODRS -VTSILKRPFL  
34878053.m -NSTVELARTICATPYMSPICENK -pf NNKSDI ALGCVLYELCTL -KHAEAGN -MKNLVLKHSQ -SFPVPLSHYSYDLRSLLSQKFR -NPRDRS -VNSILKKGFI  
28201970.m -NSTVELARTICATPYMSPICENK -pf NNKSDI ALGCVLYELCTL -KHAEAGN -MKNLVLKHSQ -SFPVPLSHYSYDLRSLLSQKFR -NPRDRS -VNSILKKGFI  
NEK1.h -NSTVELARTICATPYMSPICENK -pf NNKSDI ALGCVLYELCTL -KHAEAGN -MKNLVLKHSQ -SFPVPLSHYSYDLRSLLSQKFR -NPRDRS -VNSILKKGFI  
31211115.i -KHTMOKIDRISTEYMAPELVCETERDN -pf DRKVDI SLGILYEFQAQ -EPPNEMSP -MRVLLKIQ -SEPPKLDQPSKSHENDFLAPALVK -DPQRPS -TEVLMBSPT  
23612135.z -GSKIKKKGSHYRTHLYSPQCARHKKK -gn -fgr DRKVDI SLGILYEFKFG -RPPFSTN -NerENVMNRITOD -YHSQLFCEKvKQDLIDKSEPEKDELNLC -DK -NPKRPT -AESLIDPEI  
15239534.p -SKSPSTGKRSTPYMSPILYED -GGHFSASDI ALGCVLYEYTC -RPPFVAREF -TQLVKSRS -DPTPPLPGNASRSEVNLLESLIK -DPAQRTQ -WADLQSHAV  
ULK4.h -GENVLKKSQRKRVKSPVYAPVIRG -df SISSDI SLGCVLYEMCS -KPFPSSE -VSELTEKLCSE -DPLPPIKDSRKAASDINLLDCLOR -DPQRILT -WTRLOHSE  
31196937.i -TMGTHVLSHKTPDYMAPLLEAE -Kpf DHDADD SLGCVLYEMAL -EPPSSTSM -ILHVLIRNQ -EDYKWSVLTSCNCSHQGLER -DPILKRS -WATLQHPV  
17137760.f -TLGTHVLSHKTPDYMAPLLEAE -Kpf DHDADD SLGCVLYEMAL -EPPSSTSM -ILHVLIRNQ -EDYKWSVLTSCNCSHQGLER -DPILKRS -WATLQHPV  
AK102130.q -SANTVDRSHKTPDYMAPLLEAE -pf NHTADD SLGCVLYELVIG -QFPYNTS -VYALIRHVK -DPVKYENMSAHFSLKGLNK -SPOSRL -WPAALRHPV  
15222909.p -SINTVDRSHKTPDYMAPLLEAE -pf DRTADD SLGCVLYELVIG -QFPYNTS -VYALIRHVK -DPVKYENMSAHFSLKGLNK -EPPSRILT -WPAALRHPV  
34876833.m -SINTMVLRSKTPDYMAPLVEE -Rpf DHTADD SVGCILYELAVG -TFPEYTSI -FQVSLHLKD -FVRWPSITSCENKFLQGLTK -DPRORLS -WPDLLRHPV  
28269679.m -SINTMVLRSKTPDYMAPLVEE -Rpf DHTADD SVGCILYELAVG -TFPEYTSI -IFQVSLHLKD -FVRWPSITSCENKFLQGLTK -DPRORLS -WPDLLRHPV  
Fused.h -SINTMVLRSKTPDYMAPLVEE -Rpf DHTADD SVGCILYELAVG -TFPEYATS -IFQVSLHLKD -FVRWPSITSCENKFLQGLTK -DPRORLS -WPDLLRHPV  
40254330.m -KEGNQDVTYQDGYRABAEQLONCLAQAGLQSDTICTS -AVDL -SLGILYEMCS -MKGHTVRSQ -EWNKNSAITDHFASKAVVNAIIPYHRDLIKSMHD -DORRIP -AEMALCSHF  
34853621.m -LAKNSQNRNTNRYVLYRPPLELGE -rdy GPPIDL GAGCIMAEMWTR -SPIMQNCALISLQCGSITP -VWFNVdkYelfeklelvkgqkrkvkDRLKAYRDPYALIDLKLV -DPAQRT -SDDALNHDF  
18699998.m -LAKNSQNRNTNRYVLYRPPLELGE -rdy GPPIDL GAGCIMAEMWTR -SPIMQNCALISLQCGSITP -EVWFNVdkYelfeklelvkgqkrkvkDRLKAYRDPYALIDLKLV -DPAQRT -SDDALNHDF  
24658274.f -IPKNSKRNRYNRYVLYRPPLELGD -rn GPPVDM GAGCIMAEMWTR -SPIMQNT -EQQLFTSQ -LCGSFTpdvWpgveeIelyksielkngkrkERLYPVKQDGTGDDLLKLV -DPRKRD -ADTANHDF  
38086947.m -SEGNNAYTEVATRYRPPLELGG -APY KSDVDM SVGCILYELVIG -QFPFGESE -IDQLFTQK -VLGFPpseQmklEysNpRFHGLRfPAMNHPQSLRERYGLNVLIDMKNLKL -DPAQRT -TEQDNEPTF  
13811965.z -TINPESISIGSRVYRPPLELGA -IDY TNSIDM SVGCILYELVIG -QFPFGESE -TDLQVLEIKV -LGTptkaQvrannDYLEFQFRLSSHWENVEHCKHVEEAIIDLRMDY -LPERIT -AIKALRHPV  
30694500.p -HPGKYELVYCGSPYMAPLVELOF -ky NERADM SVGAILFELVIG -YFPERGNN -NVQVLRNKS -STALPFRSLIQMHPDCVDCSRLSI -NPAALG -HEDFPFL  
18412205.p -TPESMAETICSSPDMYAPILRNG -ky DAKADD SVGAILFELVIG -YFPERGNN -HIGLPHNVR -DTELKFPEDTRNHPDCVDCSRLRR -NPERILT -FRBFNHPFL  
30693945.p -QPRGLAETICSSPDMYAPILMQL -ky DAKADD SVGAILFELVIG -RTPETGNSQ -IQQLQNITRS -TEHLFPADRNHSDCDDCCKLRR -NPERILT -FRBFNHPFL  
30687274.p -QPRGLAETICSSPDMYAPILMQL -ky DAKADD SVGAILFELVIG -RTPETGNSQ -IQQLQNITRS -STELHFPgdCRDLSDCDDCCKLRR -NPERILT -FRBFNHPFL  
AK101458.q -VQENLAAMICSSPDMYAPILMCE -dy DAKADD SVGAILFELVIG -KLPYGAN -LFRKRONHE -SNGVKPEKIKDDLHDLKRLRL -DEKRRS -FEGFFNHPFL  
34870831.m -HSNLAAMICSSPDMYAPILMCS -dy DAKADD SVGAILFELVIG -KLPYGAN -LFRKRONHE -SNGVKPEKIKDDLHDLKRLRL -DEKRRS -FEGFFNHPFL  
24663470.f -NEGAMAATICSSPDMYAPILMCS -ky DAKADD SVGAILFELVIG -KLPYGAN -LFRKRONHE -NRSLMPSTRPESYLANLGLLOR -NOKRDM -F  
31200805.i -ODGNAATICSSPDMYAPILMCS -ky DAKADD SVGAILFELVIG -KLPYGAN -LFRKRONHE -APKIPSPRESLDELKGLRR -NSKRDMS -YESFFVHRFL  
6321258.y -PNTSLAETICSSPDMYAPILRYE -ky NARADD SVGVVIFEMCC -TPPERASN -HLBLFKRKR -NANLAPKIPSGSKELIDMLGLRR -NAKERIN -FDITFFNHPFL  
39976981.y -PNTSLAETICSSPDMYAPILRYE -ky NARADD SVGVVIFEMCC -TPPERASN -HLBLFKRKR -ANDVITFPYSYCNELKELIGSLTF -DPAQRT -FEBFFANVVR  
32403322.y -PNTSLAETICSSPDMYAPILRYE -ky DAKADD SVGVVIFEMCC -RPPKASN -HVELLRKES -AEDVILKFRPTITSEKMKFRALAKR -NPERIS -FEBFFANVVR  
19075482.y -QTSMAETICSSPDMYAPILRYE -ky DAKADD SVGVVIFEMCC -RPPKAFN -HVELLRKES -SDVILKFRPTRESVYQEMKGLLALKK -NPERIS -FEBFFANVVR  
21355829.f -KLGEMINQKLSPPYMAPLIRKH -qy DAKADD SVGVVIFEMCC -RAPPSSRT -IEBLLIRKA -KGLVILKFEAEHFDKILCALIKQ -NPAADR -YDGFSSIVV  
246645306.f -KLGEMINQKLSPPYMAPLIRKH -qy DAKADD SVGVVIFEMCC -RAPPSSRT -IEBLLIRKA -EATLPPNARISNECHDLRLLAH -EPTARIS -FADFFAHPFL  
31204211.i -KLNQENTAVKLSPPYMAPILRNS -sv GANDL SVGVVIFEMCC -RAPPSSRT -IEBLLIRKA -BATLPPNARISNECHDLRLLAH -EPTARIS -FADFFAHPFL  
34863519.m -SPWDEKHVLRSSPDMYAPILMCR -qy DARVDL SVGVVIFEMCC -RAPPSSRT -FSELBEKRS -NDPITPCRPISDCLVLSLOR -DPRRIS -PEKFFDDPVL  
 -NRVIELPLRPLSLDCLLORLIR -DPRRIS -FODFFAHPV

ULK3.h ---SFWDEKHLVLRSPPIYMAPPEVYQCR QV DARVDL SGMVILYVFLVFC QPFPASRS FSELEBEKRSN RVLLEPLRLPLSRDQDILLQILER DPERRIS FQDFFAHPVY  
39978255.y TRSCLEGRYNSVGTETPEYIAPPEVYKGGH GH SVAVDM TVGLVIFPEMTC VTFPEKGNR NATFANVMRE DVHFFDPPPLSPMKSFLRKCILK DENRRLG aiagAASIKRHPVY  
37700244.d ITNREATKRTSCPTPEYIAPPEVLEDN DY CRAVDM SLGVVMYBMMCG RLPEYQNDH ERLEFLHME DPKRLG ggpedAKBVMHKRPF  
38088242.m RSEGMQRTICCTPEYIAPPEVINAH DY SQQODI SLGVIMFHLICG EEPFLANS EEKLYELKKG ELRFENFVWESVSDAKNLLKQLMKV DPABRIT AKELLDNQIL  
38087657.m RSEGMQRTICCTPEYIAPPEVINAH DY SQQODI SLGVIMFHLICG EEPFLANS EEKLYELKKG ELRFENFVWESVSDAKNLLKQLMKV DPABRIT AKELLDNQIL  
34859991.m RSEGMQRTICCTPEYIAPPEVINAH DY SQQODI SLGVIMFHLICG EEPFLANS EEKLYELKKG ELRFENFVWESVSDAKNLLKQLMKV DPABRIT AKELLDNQIL  
STK33.h RSEAMQAIACCTPEYIAPPEVISAH DY SQQODI SLGVVMVLLIRG EEPFLASS EAKFELLRKG ELHFENAVWNSVSDCAKSVLKQLMKV DPABRIT AKELLDNQIL  
23509449.z CEYLTELCSPPHYTSELRLK KY TMSDDI ALGVVMPEMLTC KYPEEGKNTpkKHKLLELNK LINNKKKEPSSLSLEAVLTKLLER NEKRLT AYQALDHPVY  
23508430.z KSEISKTAATVLYMAPPEVYFKK KF TIGQDI SAGVIMVPLFTK SLPEGQNT YDEVKQSHR DDPDYKSLKKSQTALHMKMLQK VYDKREM ASVILDHPWF  
23509698.z PSNQSVVKSRVCSDFYLAPEVYIKK er GTRQDI SLGVILFPLITG KVPETGKN ANELYNNLTK ANIPELLSKEKSLMIGPLKLNLELIVH DDPDRFS CADILNHRIT  
6323948.y NTSKVNKPEKRFVCTISYIAPPEVYKkgvgedvgklkdy QCPVDI ALGVLYVFAAFG YTFPDCIT DDETLBCKSK DPAVRRS AKNKQHPPTI  
17560450.w GPKYRICKCTPEYIAPPEVYRE TGV STRQDI SLGVVLYVMLVQ YAPRAPD QTRLFKLLMQA TEREPFL ASQIMHPVY  
23612525.z NEFFPYRIGKSGYFIAPELFFHEC NF NNKIDM AL VTFHERYVFNSSSEAKDFIQSLLOI NPEKRLN VHEALDHPCI  
39976959.y TRDFLL G VKDVFNHKS VDFD SMD L  
32411721.y NGRGRTSVGTTPEYIAPPEVYCSNE RGH SLSVDI SIGMLCLQFSG FeLPLNRLH DFTSDFDR G VLNHILNdlgdciavgdgedygdndepidpQTSRLRPEDESSHAKDFRQCCTY NDKKRLT ARQALDHPVY  
6324927.y NENKREHHTVTPPEYIAPPEVYFRANReratLEQRG DY GCDL SLGVILFHMTC ISPEYGDG SERHIONAKIG KLNFKLQNDIYSDAKSEVILKILTY DVVVKRLN SKQGLDHPVY  
19115820.y QKGRLETFVTPPEYIAPPEVYORLKGSRVqkENSSG V QKVDL SLGVIMFHLISNSPSPADGV KEKQVD FRDPVWKSRSQAKDLISNLKT NPDHRT VKQGLDHPWF  
17509653.w PFSQFRKTVTPAYIAPPEVYORR QY NKSIDM SVGVILYVLSG TFPPNEGE EISEQIONA SFMFPTEPNSVSELAVIDLQKLLKV ETEARMS HEQCDHPVY  
17564674.w GEKSFRRSVVTPAYIAPPEVYRNK QY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VTKAQSOTIMY  
31204273.i GEKSFRRSVVTPAYIAPPEVYRN KQY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VDKSLDHPVY  
34861990.m GEKSFRRSVVTPAYIAPPEVYRSK QY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VDKSLDHPVY  
27753989.m GEKSFRRSVVTPAYIAPPEVYRSK QY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VDKSLDHPVY  
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6679351.m GEKSFRRSVVTPAYIAPPEVYRNK QY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VDKSLDHPVY  
34865180.m GEKSFRRSVVTPAYIAPPEVYRNK QY NRSIDM SVGVILYVLSG TFPPNEDE DINDOIONA AFMYPPNPKWESSEADLNNLQV KMKRYS VDKSLDHPVY  
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33622206.v GTPSLVDGTTVYSPPEKIRHe PV QVSDM AVGVVSEIISG EYEDIDE ENEEEDNM EPEDMLpLskpLPLKMLSKKAMNPKQML EL DINNRLS SYDETLKHPFI  
15617477.v GAKQKQDCTVYSPPEKIRDK PV DETMDE AIGVIAELLTC EHPKDKQdldVDTKVKLEK SFRPIQRKNSSTALDLSKMLHP NIKSRIC KFKYHAYDHP  
23577877.v NPSVHDGTELYSPPEKIRHY nV ARSFDWYAVGVLYKLLTCGRHPEKSEd eMLDLSMKRR QOYNDIGVLKVRVNRDQVYCLTRY NIDCRIT NYKQILKHPFI  
9630819.v NPSVHDGTELYSPPEKIRRH nV ARSFDWYAVGVLYKLLTCGRHPEKSEd eMLDLSMKRR QOYNDIGVLKVRVNRDQVYCLTRY NIDCRIT NYKQILKHPFI  
15320792.v HLPGVHDGTELYSPPEKIRRR nV ARSFDWYAVGVLYKLLTCGRHPEKSEd eMLDLSMKRR QOYNDINMLKDVNRDARDQVYCLTRY NIDDFRT SFNHITKHPFI  
37651384.v HSKGVHDGTELYSPPEKIRRQ nV ARSFDWYAVGVLYKLLTCGRHPEKSEd eMLDLSMKRR QOYNDIAVLKDVNRDARDQVYCLTRY DINSRIT KYVNLVXHPFI  
30387377.v HSPGVHDGTELYSPPEKIRRL nV ARSFDWYAVGVLYKLLTCGRHPEKSEd eMLDLSMKRR QOYNDITLLKVRNRDARDQVYCLTRY NIDCRIT DHKQIVKHPFI  
29567090.v DSKCVDDGTELYSPPEKIRGL fV SYSDM AVGVLYVLSG EHPKKTIVg eLDSFQHYR QKHWEITFKKRSKAKSILGIMLY QKDFRIT KEKELDHPFI  
39945616.y DNEQTFRTHCTPEYIAPPEVYSEyldydrqhiqr DYHVDLYSLGGVLYVLSG TRFPADNagYAAALNTMT QPLNIALEAVRSHSQGNCQWMLSR RPEHAT VQWENHEFI  
32423025.y HDATFLRIFCTLLYCAPPEVYREFEEDyprprSRQY DNVLDI SLGVLYVFAITQ QPFPARN GVGHTEFHOI MTTFFDQLIKADDFVSLRQKDFELKQMLSR RPEHAT AKMILDHPFI  
19075441.y HGTGTEPEHCTMGLYAPPEVYKSNV NLDGGY DDKVDI SLGVLYVMLTA STFPASS QACIEELSKG AYPTEPLENEBSEEGIDLINRMLBI NPEKRIS ESEALDHPWF  
6325104.y GNGSFMKTCCTMGLYAPPEVYRKGDTSDyEERNEY SSVLDM SGMGVVILITG HLPSSGT QDQLYKOTRG SYHBPGLKDFRSEEARDLIDLQV DPNRNL AAKALDHPVY  
17569713.w VNRKRTCTPEYIAPPEVYVANGV EY TKVDI SLGVLEIFITFSG YFPSESEY TDLKMDQVLTG RLFFHGHRRITVETONQIMKMLTV EPLRBS AVELMSTOMY  
32566075.w VNRKRTCTPEYIAPPEVYVANGV EY TKVDI SLGVLEIFITFSG YFPSESEY TDMMDQVLTG RLIFHAQWRITVETONQIMKMLTV EPNRBS AVELMSTOMY  
17566118.w VNRKRTCTPEYIAPPEVYVANGV EY TKVDI SLGVLEIFITFSG YFPSESEY TDMMDQVLTG RLIFHAQWRITVETONQIMKMLTV EPNRBS AVELMSTOMY  
24585370.f QKDSVMTICCTPEYIAPPEVYITGR EAM TKVDI SLGVVLPFCISG TLPSDEY GTPAAQIKKG RFAYGHPSWKSQRKLLINQMLIV DPERRS IDDLQSSYL  
17137304.f QKDSVMTICCTPEYIAPPEVYITGR EAM TKVDI SLGVVLPFCISG TLPSDEY GTPAAQIKKG RFAYGHPSWKSQRKLLINQMLIV DPERRS IDDLQSSYL  
17137306.f QKDSVMTICCTPEYIAPPEVYITGR EAM TKVDI SLGVVLPFCISG TLPSDEY GTPAAQIKKG RFAYGHPSWKSQRKLLINQMLIV DPERRS IDDLQSSYL  
31222091.i DHTIFRTHCTPEYIAPPEVYSES NGQKPY TRQVDV SLGVLYVMLTG LLFSGTMNGM TDAEELVMRG NPSMAQPVWTVTSRREKLLIVLIV DPERRS VEMLDSPVY  
16758490.m GETSLMRTICCTPEYIAPPEVYHISNGT AGY SRAVDC SLGVILFICISG YFPSEHKTQ TVSLKDOTISG KYNLIPVWTVTSSEKALDLVKKLVV DPKARLT TEBALDHPVY  
7710088.h GETSLMRTICCTPEYIAPPEVYHISNGT AGY SRAVDC SLGVILFICISG YFPSEHKTQ TVSLKDOTISG KYNLIPVWTVTSSEKALDLVKKLVV DPKARLT TEBALDHPVY  
CHK2.h GETSLMRTICCTPEYIAPPEVYHISVGT AGY NRAVDC SLGVILFICISG YFPSEHR TVSLKDOTISG KYNLIPVWTVTSSEKALDLVKKLVV DPKARLT TEBALDHPVY  
24648808.f RETLETGHRVCPHYMAPPEVYRKR LK QGQDVF GAVMLHVLISG RLPEHSGG VRFQOSVARG RLSEAEAEKSHSNAKDLVYKMLAA NPHRIS IFEVLDHPVY  
17568923.w IGGSMACGRVYVQFMAPPEVYRKD RV SCSSDI SSGVILHLLIAG RLPSGSGT SDHYERIMQT DVDDGYMPSHSSAKDLVRRMLM DPKRIS ABAALDHPVY  
CaMK2d.h gDQQAWFGFATPQYIAPPEVYRKR dBY KCPVDM ACVVILYHLLVQ YFPWDEDQ QHRYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPAKRIT ABAALDHPVY  
18158420.m QDQQAWFGFATPQYIAPPEVYRKR dBY KCPVDM ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPAKRIT ABAALDHPVY  
6978595.m QDQQAWFGFATPQYIAPPEVYRKR dBY KCPVDM ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPAKRIT ABAALDHPVY  
31204371.i QDQQAWFGFATPQYIAPPEVYRKR dBY KCAVDI ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG TYDYSPENDVITEAKSLINQMLTV NPKRIT AADALDHPVY  
24638774.f gdHQAWFGFATPQYIAPPEVYRKR dBY KCSVDI ACVVILYHLLVQ YFPWDEDQ QHRYSOIKAG AYDFPSPENDVITEAKLINQMLTV NPKRIT ABAALDHPVY  
24638772.f gdHQAWFGFATPQYIAPPEVYRKR dBY KSVVDI ACVVILYHLLVQ YFPWDEDQ QHRYSOIKAG AYDFPSPENDVITEAKLINQMLTV NPKRIT ABAALDHPVY  
24638770.f gdHQAWFGFATPQYIAPPEVYRKR dBY KCSVDI ACVVILYHLLVQ YFPWDEDQ QHRYSOIKAG AYDFPSPENDVITEAKLINQMLTV NPKRIT ABAALDHPVY  
32565743.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
32565740.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
32565737.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
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32565732.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
32565735.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
25145098.w dSEAWHGFAATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYAOLKAG AYDFPSPENDVITEAKSLIDSMLTV NPKRIT ADQALDHPVY  
6978593.m EGEGQAWFGFATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPAKRIT ABAALDHPVY  
13786172.m KGSDALSNVITPFAFMAPPEVYSETR KIFSKALDV AMGVLVYCFVFC QCPMDERI MCLHSHKIKSQ ALEFFDQPDIAEDLKLITRMLDK NPESRIV VPEIKDHPVY  
21703722.m KGSDALSNVITPFAFMAPPEVYSETR KIFSKALDV AMGVLVYCFVFC QCPMDER IMCHSHKIKSQ ALEFFDQPDIAEDLKLITRMLDK NPESRIV VPEIKDHPVY  
CaMKK2.h KGSDALSNVITPFAFMAPPEVYSETR KIFSKALDV AMGVLVYCFVFC QCPMDER IMCHSHKIKSQ ALEFFDQPDIAEDLKLITRMLDK NPESRIV VPEIKDHPVY  
28916677.m geQQAWFGFATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPKRIT ABAALDHPVY  
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31982483.m gdQQAWFGFATPQYIAPPEVYRKR eAM KCPVDI ACVVILYHLLVQ YFPWDEDQ QHRYQOLKAG AYDFPSPENDVITEAKDLINQMLTI NPAKRIT ABAALDHPVY  
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6753276.m BSLVAGGRVTPFAFMAPPEVYRKR EBY KCPVDV GCGVILFHLISG CLPEYGTK ERLEFGLIKG KYKMNPROWSHSSAKDLVRRMLM DPABRIT VYBALDHPVY  
23308741.d BSLVAGGRVTPFAFMAPPEVYRKR EBY KCPVDV GCGVILFHLISG CLPEYGTK ERLEFGLIKG KYKMNPROWSHSSAKDLVRRMLM DPABRIT VYBALDHPVY  
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31241957.i NGRDVSVEHGRVCPHYMAPPEVYRKR RVY KCPDV GAVMLHVLISG RLPEHSGG KRLQDAHARG RVTLDTFEWKHSNNAKDLVYKMLAP NPLSRET IFEVLDHPVY  
31241959.i NGRDVSVEHGRVCPHYMAPPEVYRKR RVY KCPDV GAVMLHVLISG RLPEHSGG KRLQDAHARG RVTLDTFEWKHSNNAKDLVYKMLAP NPLSRET IFEVLDHPVY  
22203757.m GBSGLVAGGRVTPFAFMAPPEVYRKR EBY KCPVDV GCGVILFHLISG CLPEYGTK ERLEFGLIKG KYKMNPROWSHSSAKDLVRRMLM DPABRIT VYBALDHPVY  
11559947.m GBSGLVAGGRVTPFAFMAPPEVYRKR EBY KCPVDV GCGVILFHLISG CLPEYGTK ERLEFGLIKG KYKMNPROWSHSSAKDLVRRMLM DPABRIT VYBALDHPVY  
11120682.m QDQQAWFGFATPQYIAPPEVYRKR eAM KCPVDI ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG AYDFPSPENDVITEAKLINQMLTI NPAKRIT ABAALDHPVY  
19424316.m QGEGQAWFGFATPQYIAPPEVYRKR dBY KCPVDI ACVVILYHLLVQ YFPWDEDQ HRLYQOLKAG AYDFPSPENDVITEAKLINQMLTI NPAKRIT ADQALDHPVY

